

Technology for Hearing and Non-Auditory Access



September 10th, 2018
Presenter- Danny Housley

About Your Presenter



Lifelong AT User

Low vision items from K-
now

Prior experience at a Center
for Independent Living

Lifelong advocate



AMAC Accessibility

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

- **Accessibility Consulting** focuses on organizational accessibility needs with evaluation, technical assistance, customer support, and web accessibility solutions.
- **Braille Services** produces customized projects from both print materials and electronic text including partial books and chapters or graphics
- **Captioning Services** makes classrooms, meetings, labs and other audio environments fully accessible for deaf or hard-of-hearing.
- **Professional E-Text Producers** provide high-quality e-text in many formats such as PDF, DOC, DAISY, and HTML.
- **Certified Assistive Technology** team provides on-site and remote assessments, demonstrations, training and technical assistance for education, work, and daily living environments.

For more information: www.amacusg.org



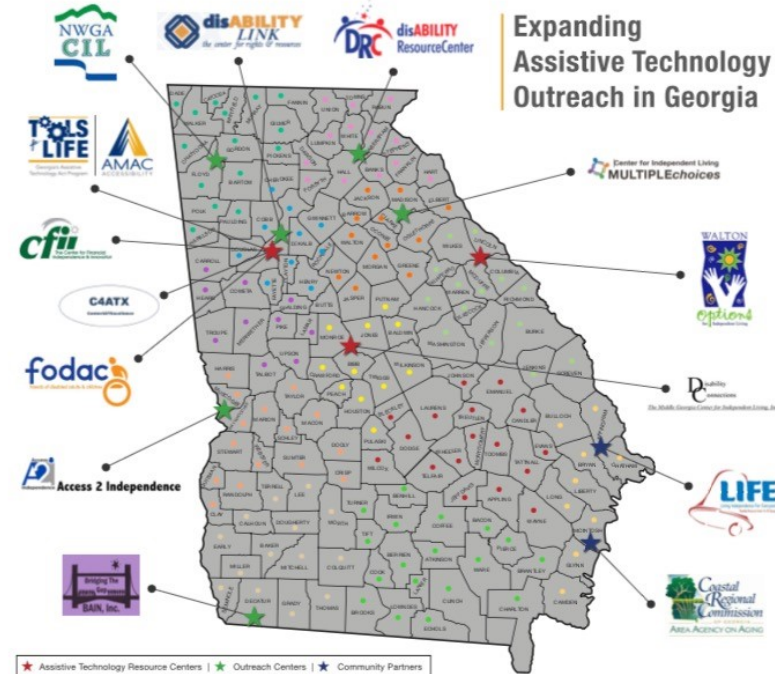
Tools for Life

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 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**
Cheney, Cheryl; Cobb, Carol; Clayton, Payton; Fulton, Garrett; Henry, Patricia
- Coastal Georgia Area Agency on Aging**
Bryant, Susan; Camden, Christine; Douglas, Tom; Liberty, Ling; Mason, Jeff
- CSRA Area Agency on Aging**
Barta, Georgia; Gordon, Patricia; Jefferson, Jackie; Leach, Richard; Pittman, David; Stearns, Brian; Worthington, Brian
- Heart of Georgia Area Agency on Aging**
Kasper, Shirley; Carter, Craig; Brantley, Craig; Jeff Davis, John; Lee, Sandra; Montgomery, Tami; Noll, Tamara; Poulton, Wayne; Whittle, Mike
- LegacyLink Georgia Mountain Area Agency on Aging**
Baker, Sharon; Farns, Franklin; Hesterman, Rick; Hunt, Lorraine; Nelson, Heather; Ryan, Linda; Sikes, Bob
- Middle Georgia Area Agency on Aging**
Baker, Bob; Gresham, Thomas; Jones, Brian; Peach, Patrick; Peterson, Wayne; Whittle, Mike
- Northeast Georgia Area Agency on Aging**
Barnes, Chris; Ebert, Steven; Jackson, Jesse; Madison, Morgan; Nelson, Wayne; Whittle, Mike
- Northwest Georgia Area Agency on Aging**
Barnes, Carlos; Chubb, Lee; Farris, Fred; Garner, Gordon; Hamilton, Murray; Harding, Patricia; Pich, Bob; Whittle, Mike
- River Valley Area Agency on Aging**
Chapman, Clay; Clay, Cliff; Farris, Fred; Harris, Marian; McLaughlin, Gordon; Peterson, David; Sikes, Robert; Taylor, Robert
- Southern Georgia Area Agency on Aging**
Abrams, Susan; Smith, David; Stanley, Sherry; Chapman, Clark; Coffey, Clark; Elliott, Mary; Lane, Lorraine; Parris, Tim; Taylor, Bob
- SWGA Council on Aging Southwest Georgia Area Agency on Aging**
Barnes, Carlos; Chubb, Lee; Farris, Fred; Garner, Gordon; Hamilton, Murray; Harding, Patricia; Pich, Bob; Whittle, Mike
- Three Rivers Area Agency on Aging**
Barnes, Carlos; Chubb, Lee; Farris, Fred; Garner, Gordon; Hamilton, Murray; Harding, Patricia; Pich, Bob; Whittle, Mike

TOOLS for LIFE

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

Smartphone Smart Solutions



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

Apps for Hearing Access



- Petralex
- Flip Writer
- Ava
- NoISee

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
- 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 (\$149.00) TV Ears Speaker (\$160)
- TV Soundbox (\$140.00)
- Captions and Descriptions
- Accessibility setting on your mobile device

TV Audio Amplification Options

TOOLS *for* **LIFE**



In the Home

Accessibility Options for the Home



- Smart home technology is becoming more and more ubiquitous
- 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



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

Phillips Hue Lights



- Color and white options
- Set scenes
- Accent lighting
- Control with your assistant, 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 Smart 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



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



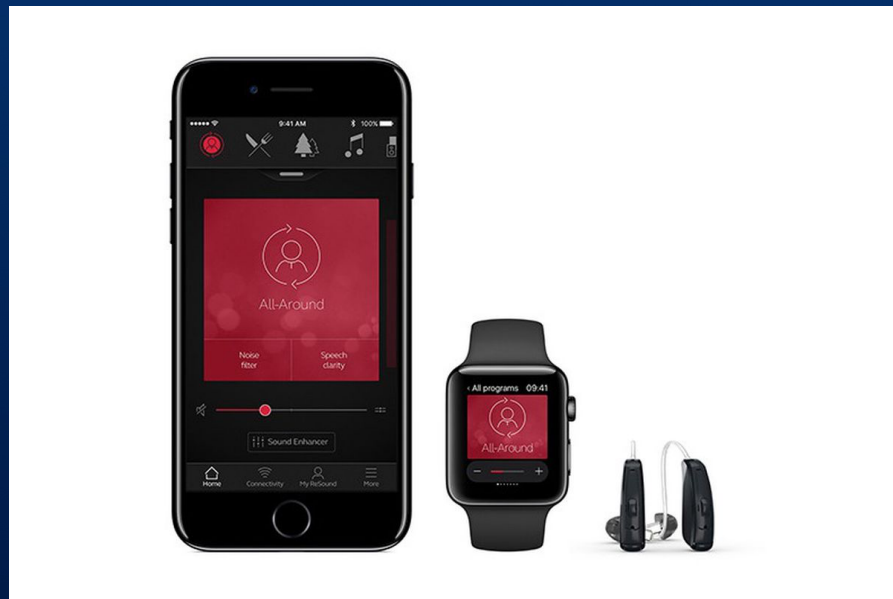
- Variety of styles from home phone to mobile
- Sorenson, Purple
- Video relay service
- **Cannot be used as a workaround for an interpreter**
- Price point varies
- GA TEDP can cover these



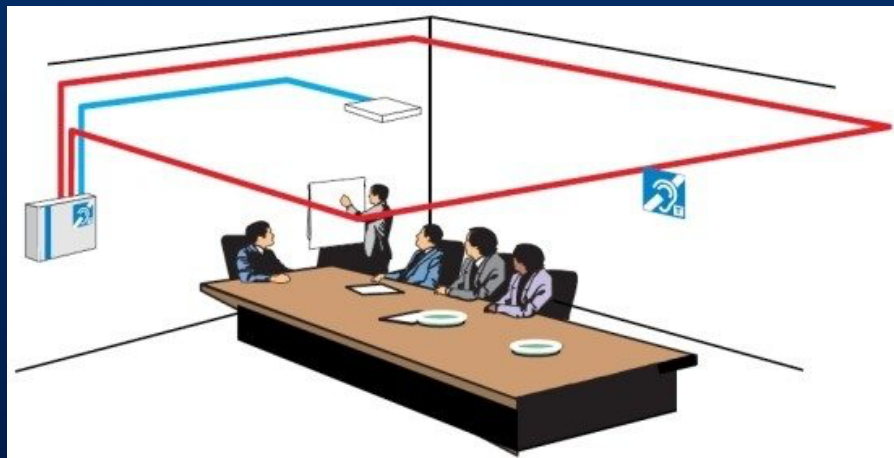
Hearing Aids



- 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

Other Personal Amplification Options



Credit-Able AT Loan



- For Georgians with disabilities
 - Or their guardians
 - Or their employers
- For assistive technology
- Max of \$10,000
- 3-8% interest rate
- Max of 8 years for terms

First \$TEP



- Money To Empower People
- Credit Builder Program
- Financial Education Requirement
- Max of \$1,000
- 4% interest rate
- Max of two years terms
- Versatile



The Tools for Life Team



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Georgia Institute of Technology

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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, 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.