

# DBHDD & Tools for Life: Assistive Technology Project

Disability Connections in Macon, GA  
Tuesday, August 16, 2016  
9:30 AM to 3:30 PM

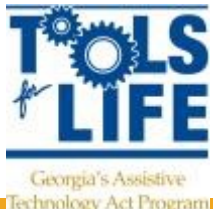
*Nicki Wilson, DBHDD and the Tools for Life Team*

[www.gatfl.gatech.edu](http://www.gatfl.gatech.edu)

# Agenda



- **9:30 AM Welcome & Introductions**
  - *Nicki Wilson – DBHDD and Carolyn Phillips - Georgia Tech (GT) | College of Design | AMAC | Tools for Life (TFL)*
- **9:45 AM Vision & Goals for AT Solutions Project**
  - *Nicki Wilson and Carolyn Phillips*
- **10:00 AM Process Referral to the AT Solutions Project**
  - *Nicki Wilson, Ben Satterfield and Martha Rust*
- **10:30 AM Laying the Foundation: Public Awareness & Exploring AT Solutions Trainings**
  - *Carolyn Phillips, Liz Persaud and Danny Housley*
- **11:15 AM Laying the Foundation: Person-Centered AT Services – Searching for Solutions**
  - *Carolyn Phillips and Martha Rust*
- **12:00 PM Lunch (on your own)**



# Agenda (continued)



- **1:15 PM Considering AT Strategies & Solutions**
  - *Carolyn Phillips, TFL Team & TFL Network*
    - Cognitive Supports and Strategies – Ben S. and Pat
    - Aids for Daily Living – Rachel & Sarah
    - Home Modifications & Safety – Rachel, Sarah & FODAC
    - Controlling the Environment – Liz, Ben J. & Disability Connections
    - Accessible Gaming – Carolyn & Ben J.
    - Communication throughout the Home – Ben S. & Krista
    - AT for Vision & Hearing – Danny & Sam
    - Wearables – Martha & Danny
    - Our Favorite Apps for Living - Martha & Rachel
    - AT Reuse – Carolyn, FODAC & Walton Options
- **3:15 PM Wrap Up & Next Steps**
  - *Nicki Wilson and Carolyn Phillips*
- **3:30 PM Adjourn (and Start Spreading the Word!)**



# Welcome and Introductions

Nicki Wilson – DBHDD

Carolyn Phillips - Tools for Life (TFL)

# Begin with the End in Mind!



# Tools for Life Mission



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.



# Guiding Principles

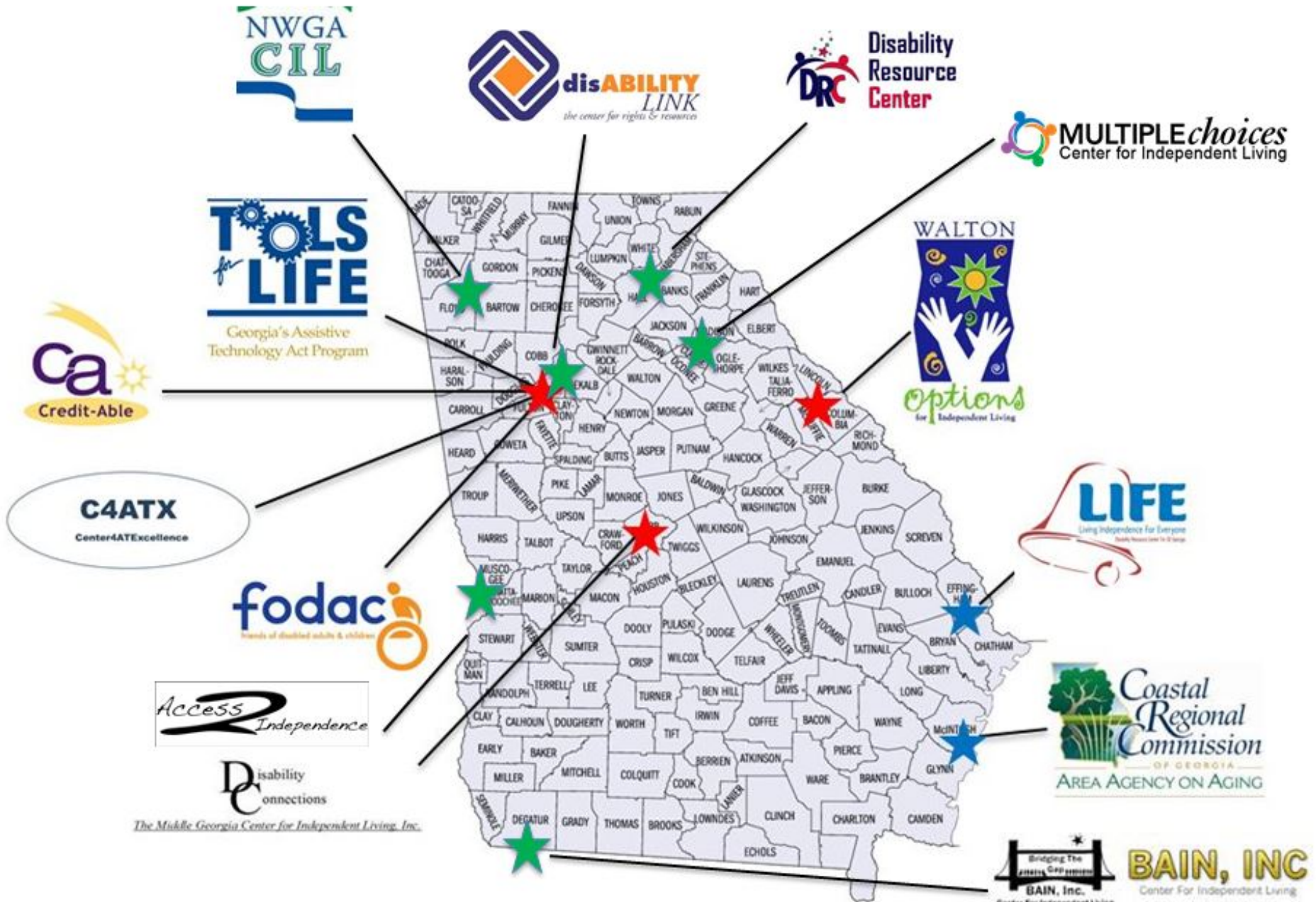


- We – Collectively – are Brilliant & Can find an Innovative Path and Create Brighter Futures
- Smooth Transitions Make The Difference!
- We must Think, Live and Act from a place of Abundance – We have enough time, money, resources.
- We Must Focus on Abilities!
- Assistive Technology is Key to Success.
- Success Breeds Success
- YOU have the Power to make the Difference!
  - Change vs. Progress (Bob Phillips)





# The TFL Network





# Visit us online!



- TRAINING
- FUNDING
- PUBLICATIONS
- TFL WIKI
- MEET THE TFL TEAM
- MEET THE ADVISORY COUNCIL
- DIRECTIONS/MAP
- JOIN OUR MAILING LIST
- SCHEDULE A TOUR

Welcome AT Services Try AT Get AT AT Guides Research



Stay up-to-date on the latest assistive technology strategies and solutions with customized individual and group trainings.

\*\*\*\*\*

## Welcome to 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 and the TFL Network work collaboratively together to accomplish our mission through:

- [AT Demonstration](#)
- [AT Evaluations and Assessments](#)
- [AT Funding Options & Education](#)

## GATE 2016

DEC 9

Georgia Tech Student Center

## WEBINARS

- [Current Webinar Schedule](#)
- [Webinar Archives](#)

## TOOLS FOR LIFE APPFINDER



...for Living, Learning, Working, and Playing.

## AT ONLINE EXCHANGE



## AT FUNDING GUIDE

**DOLLARS & SENSE**  
NAVIGATING THE AT FUNDING STREAM



# What is Assistive Technology?



- Assistive Technology (AT) is any item or piece of equipment that is used to increase, maintain or improve the functional capabilities of individuals with disabilities in all aspects of life, including at school, at work, at home and in the community.
- Assistive Technology ranges from no/low/light tech to high tech devices or equipment.



# Why Assistive Technology?



- For a person without a disability, technology makes life easier.
- For a person with a disability, technology makes life possible.
- **TIP: USE AT! We have yet to meet a successful individual who does not use any AT.**



# Vision & Goals for AT Solutions Project

Nicki Wilson – DBHDD

Carolyn Phillips - Tools for Life (TFL)

Dr. Ben Satterfield – TFL | Research

# Vision & Goals



## Public Awareness & Training

- Reach all 3,000
- 500 individuals & their families/circles of support

## Direct AT Services & Solutions

- 325 individuals & their families/circles of support
- Research & Data



# National Core Indicators



Pre and post survey to determine impact of AT on individuals:

## Individual Outcomes

- Community Inclusion
- Work
- Relationships
- Satisfaction
- Choice and Decision-Making
- Self-Determination

## Health, Safety, Rights

- Safety
- Health
- Medications
- Wellness
- Restraints
- Respect/Rights





# Process Referral to the AT Solutions Project

Nicki Wilson – DBHDD

Martha Rust and Ben Satterfield - Tools for Life

# Referral Process



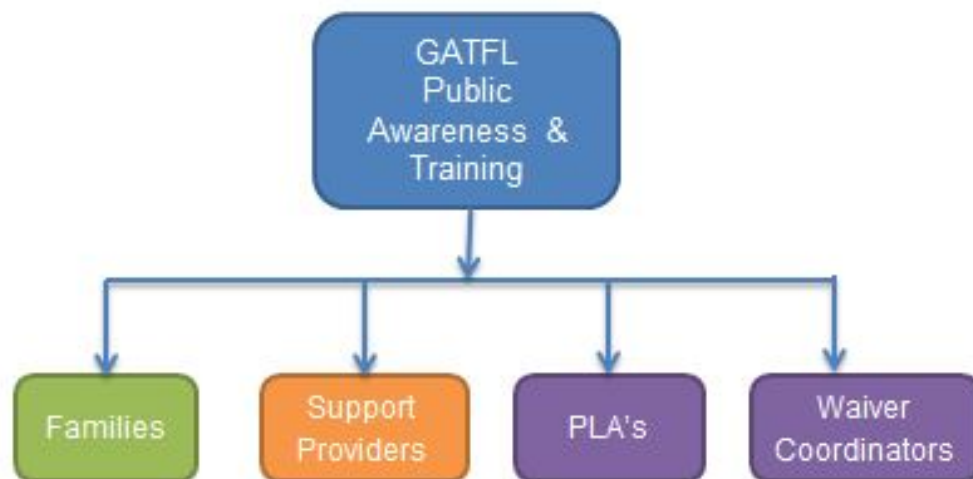
- Direct AT Services & Solutions
- 325 individuals & their families/circles of support

# How do individuals get AT Services?



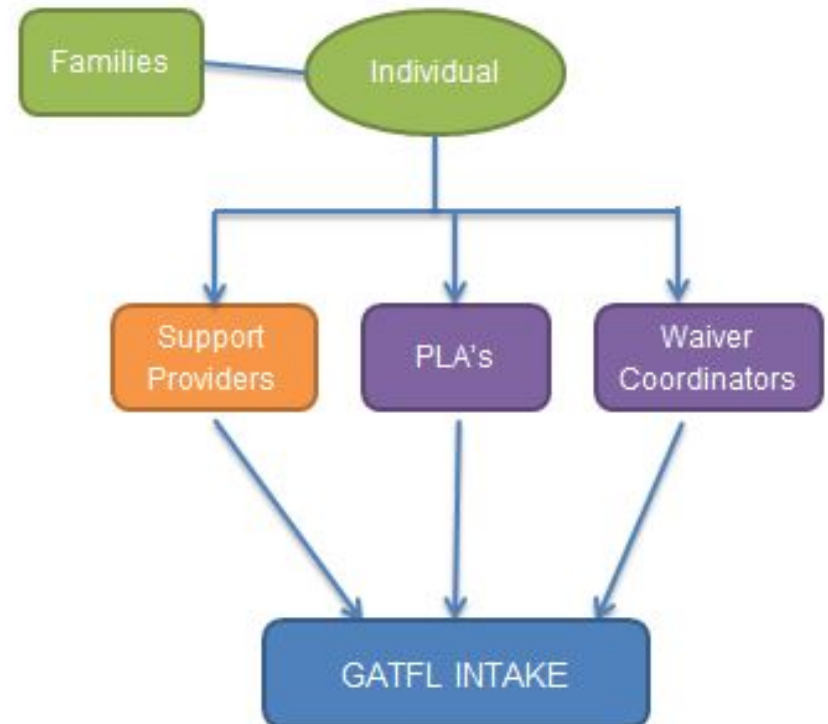
## Public Awareness

- Outreach
- Families
- Support Providers
- Plan Administrators
- Waiver Coordinators
- Looking for individuals who AT might help



# Individuals and AT Services

- Individual / families request AT solutions
- Referral from
  - Support Providers
  - Plan Administrators
  - Waiver Coordinators



# Focus on the Individual



Project will Focus on Individuals:

- From the **“Short Term” Planning List.**
- Individuals who struggle with **independence** and **community access.**
- Individuals for whom **AT** might have a **positive impact.**
- Individuals **over age of 18.**



# When individuals approach GATFL directly



Individuals who approach TFL first


- Redirect to their service provider
- Provided with form and information to smooth process
- Allow support providers to do their due diligence before referral to TFL





# AT Services Referral Form



 **Georgia Department of  
Behavioral Health & Developmental Disabilities**  
DBHDD  
Division of Developmental Disabilities

**ASSISTIVE TECHNOLOGY SERVICES REFERRAL FORM**

Date of Referral: \_\_\_\_\_

**Individual Demographic Information**

Individual's Name: \_\_\_\_\_ DOB: \_\_\_\_\_  
Individual's SSN: \_\_\_\_\_ Phone #: \_\_\_\_\_  
Address: \_\_\_\_\_ County: \_\_\_\_\_  
DD/DD Diagnosis: \_\_\_\_\_

**Current Services (check all that apply)**

☐ NOW ☒ CCMR ☐ Participant Directed ☐ Exceptional Rate

**Parent/ Legal Guardian / Representative Information (if applicable)**

Name: \_\_\_\_\_  
Phone: \_\_\_\_\_ (if available): \_\_\_\_\_  
Address: \_\_\_\_\_

**Needs Identified (check all that apply)**

Needs:  
☐ Communication  
☐ Mobility  
☐ Vision  
☐ Hearing  
☐ ADLs

**How could AT help this individual?  
(Explain/ provide supporting documentation if any)**

**Referral Source Information:**

Support Coordinator: \_\_\_\_\_  
Email Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

**Program Coordinator review:**

☐ Approved  
☐ Application Not Complete  
☐ Not Approved Reason: \_\_\_\_\_

\_\_\_\_\_  
Program Coordinator

\_\_\_\_\_  
Date

## Assistive Technology Services Referral Form

- Will use this 1-page form to make referrals
- Basic demographic, contact information
- Kind of disability
- Context, How AT might help



# Laying the Foundation: Public Awareness & Exploring AT Solutions Trainings

Carolyn Phillips, Liz Persaud, and Sam Peters - Tools for Life

# Training Request Process



## Public Awareness

- Reach all 3,000
- 500 individuals & their families/circles of support

## How to Request a Training in Your Community

- We will have request forms that will be automatically go to the TFL Training Coordinator.
- Keep in mind that we will need:
  - Topic
  - What are the specific needs/objectives?
  - Location/Date
  - # of participants



# Topics to Consider



- **What topics have you learned about today that interest you for training?**
- Consider:
  - Assistive Technology 101
  - Communication
  - Mobility
  - Sensory (Hearing/Vision)
  - Cognitive Supports
  - Environmental Control
  - Gaming
  - AT Funding
  - Apps, mobile devices
  - Aids for Daily Living, Safety, Fall Prevention





# Laying the Foundation: Person-Centered AT Services – Searching for Solutions

Carolyn Phillips and Martha Rust - Tools for Life

# The “FAST” Track



- ✓ Frustration
- ✓ Anxiety
- ✓ Stress
- ✓ Tension



# Human Activity Technology (HAAT) Model



- Human: represents the skills and abilities of the person with a disability
- Activity: a set of tasks to be performed by the person with a disability
- Context: the setting or social, cultural and physical contexts that surround the environment in which the activity must be completed
- Assistive Technology: devices or strategies used to bridge the gap between the person's abilities and the demands of the environment
  - Developed by Cook & Hussey



# The SETT Framework

**S = Student/Skills**

**E = Environment**

**T = Tasks**

**T = Tools**



Adapted from Joy Zabala [www.joyzabala.com](http://www.joyzabala.com)

# In the Shadows - Mainstream



- Tim Cook, Apple Chief Executive
- 2013 speech at Auburn University
- ...people with disabilities are "in a struggle to have their human dignity acknowledged."
- "They're frequently left in the shadows of technological advancements that are a source of empowerment and attainment for others."

# Mainstream Example: Mobile/Smart Phones



- iPhone - mobile phone in the mainstream market.
- Apple included a screen reader in the iOS for every iPhone.
- Increased Access for everyone – especially individuals with disabilities
- Decreased Cost – not as costly as it would be for a company specializing on screen readers
- Moved us Out of the Shadows, Into the Light!

# iOS 8 – released in 2014

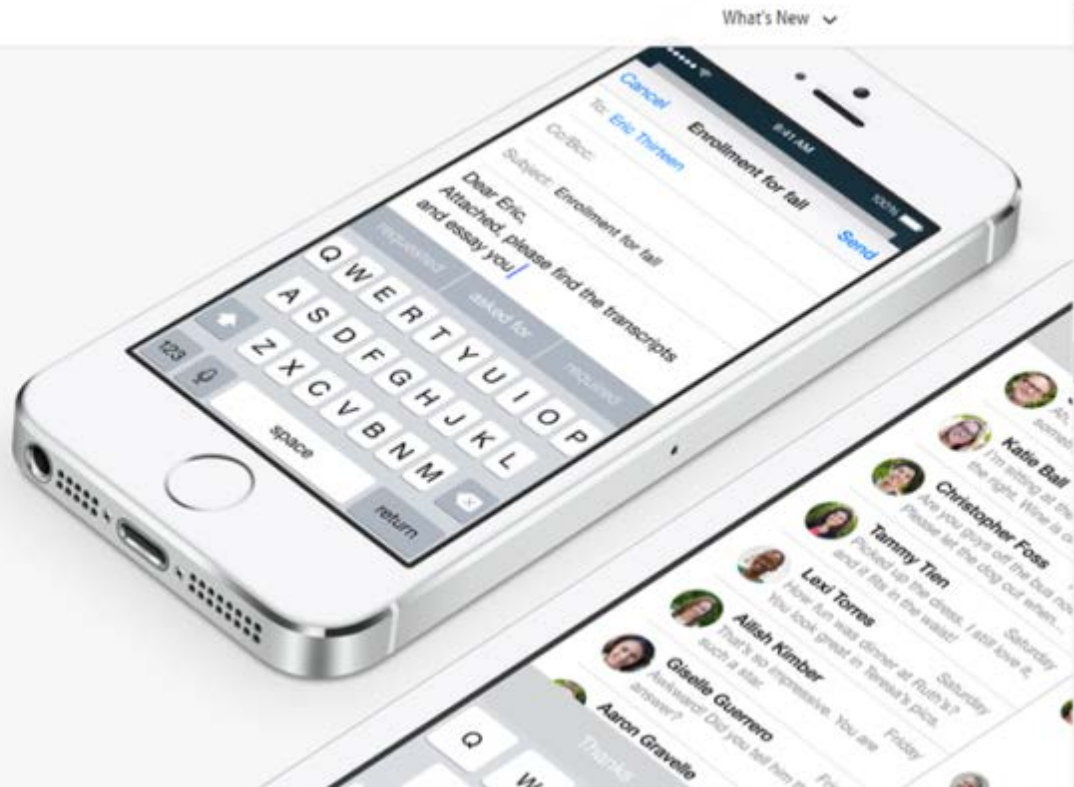
## iOS 8 Preview



### Our smartest keyboard ever.

iOS 8 makes typing easier by suggesting contextually appropriate words to complete your sentences. It even recognizes to whom you're typing and whether you're in Mail or Messages. Because your tone in an email may be different from your tone in a message.

[Learn more >](#)



# Communication Everywhere

Ben S. and Krista





*The Middle Georgia Center for Independent Living, Inc.*

# A Life Worth Living



Michelle using Communication and Environmental Controls

# Communication Everywhere



## **Communication Considerations:**

How?

- Verbally, Signs/Gestures/Facial Expressions, pictures, Voice Output Device

Needs?

- Face-to-Face, Telephone, Written

Where?

- Home, Community, Work

# Continuum of Communication Tools

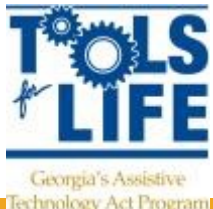
- Low Tech
  - Symbols
  - Comm boards, wallets, rings etc.
- Mid Tech
  - Single Message
  - Sequenced Messages
  - Static Display Devices
- High Tech
  - Dynamic Display
  - Icon Sequencing



# Items in Tool Kit



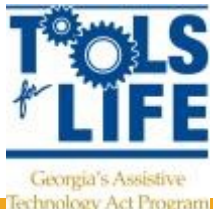
- Personal Communication Book/Wallet
- Large Communication Book
- Word Power Low Tech Flip Book
- Low Tech Voice Output
- Hip Talker with levels
- Quicktalker



# Low Tech/Light Tech Options



- Picture Symbols:
- Can communicate single words or messages
- Real pictures or drawings
- With or without voice output
- Static Display: In static or fixed displays, symbols are arranged on individual pages; the symbols do not change position on the display. In such systems, one page is physically removed and replaced by another in order to access additional vocabulary
- Record digitized speech
- No computer function



# Communication Everywhere: Low



- **Low-Tech Options:**



# Communication Everywhere: Mid

- **Mid-Tech Options:**





# Communication Everywhere: High



## High Tech Options:

- Dynamic display/Icon Sequencing
  - touching a single symbol allows the student to access multiple overlays automatically
  - May or may not have computer function
  - High level of support, training, and maintenance
  - Synthesized speech, widest range of communication options
- Examples:
  - iPad with communication application,
  - Dedicated communication devices





# Communication & Environmental Control

- **PowerLink 4** – switch control over simple appliances
- **Jelly Beamer** – cordless remote control via switch



# Wearable Communication

## Communication Everywhere

- Talk Track
- Hip Talker
- Step Pad



# Cognitive Supports and Strategies

Ben S. & Pat

# Cognitive Support

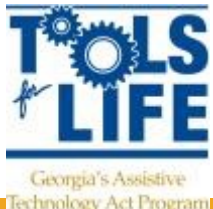


## **Helping to Build Independence for :**

- Individuals with Intellectual and Developmental Disabilities
- Individuals with Traumatic Brain Injury
- Individuals experiencing problems with memory
- Anyone learning a complex or difficult task

## **Functions of Cognitive Support**

- Alert a person
- Give information in manageable increments
- Give personalized directions
- Give feedback about performance



# Cognitive Support (cont'd)

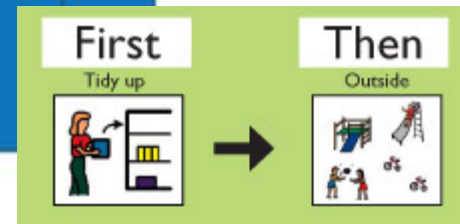


## **Environments that may require Cognitive Support**

- Academics
- Computer Use
- Community Inclusion
- Community Living
  - Leisure
  - Employment
  - Communication
- Self-regulation
- Mobility
- Environmental Control



# Cognitive Support – AT Examples



5	<b>I can't stand this and ready to explode.</b> I want to hit someone, something, or throw something. I need an adult to help me go to a safe place so I can calm down.	
4	<b>I am getting too angry.</b> My brain isn't working clearly. I might say or do something I will be sorry for later. I need to go to my safe place to calm down.	
3	<b>I am getting really irritated.</b> I need to walk away from a bad situation. I will tell my teacher that I need a break.	
2	<b>I am doing OK.</b> I'm not pleased, but I'm not upset. I can stay where I am and keep working. I can control my anger by myself.	
1	<b>I am doing great.</b> I feel good about myself and about what is going on around me.	



# Low Tech Cognitive Support

## Low Tech Cognitive Support: for grocery store clerk with DD



Good



Reduce Price



Remove



# Aids for Daily Living (ADL)

Rachel & Sarah



# Healthy Living



- Take proactive steps BEFORE incidents occur
- Awareness of safety needs is key
- Home modifications or adaptations can reduce the amount of care required
- Protection in place for individual and caregiver to avoid injury, burn-out
- Increase independence of individual is empowering and a “win-win”!



# Safety Questions to Consider



- ✓ Is there adequate lighting inside and outside the home?
- ✓ Is flooring and/or steps in good repair? Do they have non-slip surfaces?
- ✓ Are there secured handrails for the steps? Grab bars available by the commode and in shower/tub area?
- ✓ Are there tripping hazards including pets or clutter in the home?



# Simple Safety Solutions

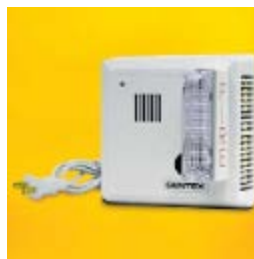
- Anywhere lighting: “Stick-n-click” or motion detection lighting can illuminate darken hallways or dark staircases



- Skid-resistant rugs



- Smoke alarms for deaf/hard of hearing



- Organize cords by using toilet paper rolls. Cost efficient!



# AT for ADL

- **Non-Slip Placemat**

- Keep plates and other items from moving
- Use on roller walkers
- Cut to fit



- **Freedom Dinnerware**

- Low vision, Alzheimer's, Arthritis, stroke
- Suction keeps plate from moving
- Helps with getting food on utensils



- **Freedom wand**

- toilet aid



# Health and Wellness

## Epic ID Emergency ID Band

- Easy for first responders to access
- Salt water safe USB with a durable stainless steel clasp and USB cover
- No subscription or internet connection is required
- Plug this USB into your computer and input or update your personal information medical history and insurance information
- Both PC and Mac compatible



## Reminder Rosie

- Alarm Clock
- Personal Voice Reminder
- Easy to use



# Does this look familiar?

- How many prescriptions?
- How are they managed?



# Medication Solutions



## MedCenter

- Organizer with Reminder System
- Monthly display
- Alarm
- Talking



## Pillpac.com

- Organized pills packaged by pharmacy
- Sealed pouches for each day
- Time stamped
- Lessen medication errors



## [www.alzstore.com](http://www.alzstore.com)

- Holds 29 doses
- Set up to 4 alarms each day





# Telephone Options

## Future Call

- Amplified Picture Memory Phone
- Amplified Volume - Up To 40dB
- Hearing Aid Compatible
- One-Touch Emergency Button
- Easy-To-See Oversized Photo Buttons
- Bright Visual Ringer



## Clarity Picture Phone

- Amplified Picture Memory Phone
- Amplified Volume - Up To 18dB
- Hearing Aid Compatible
- Easy-To-See Oversized Keypad Buttons
- 9 Programmable Photo-Dial Memory Buttons
- Bright Visual Ringer





# Home Modifications and Safety

Rachel, Sarah & Disability Connections,  
FODAC

# Disability Connections – Home Mods



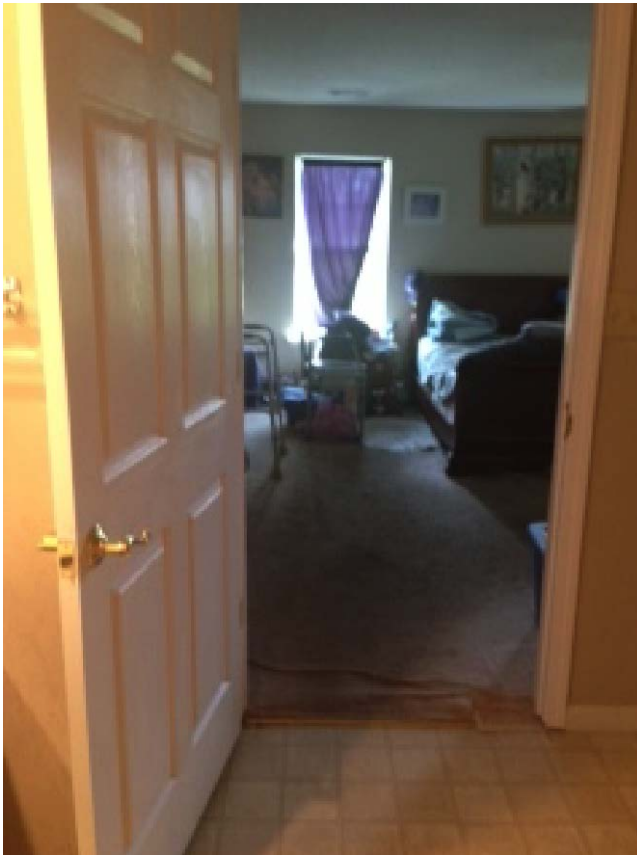
## Custom Ramps

# Disability Connections – Home Mods



## Modular Ramps

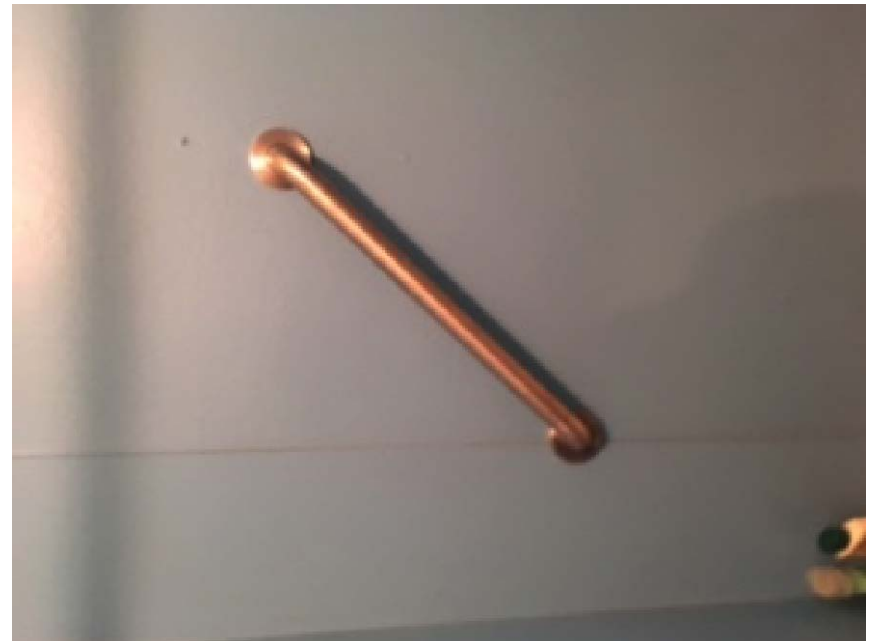
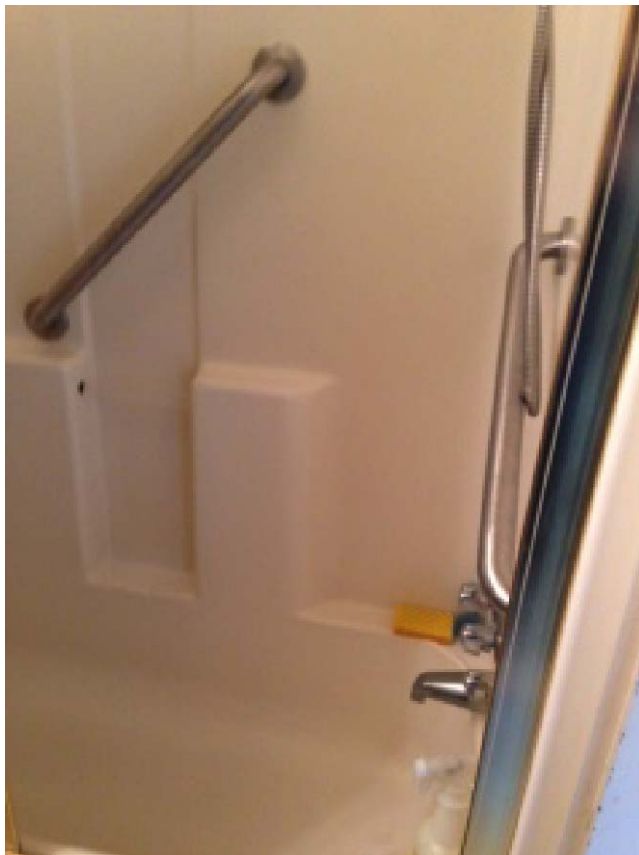
# Disability Connections – Home Mods



**Widen Doors**

# Disability Connections – Home Mods

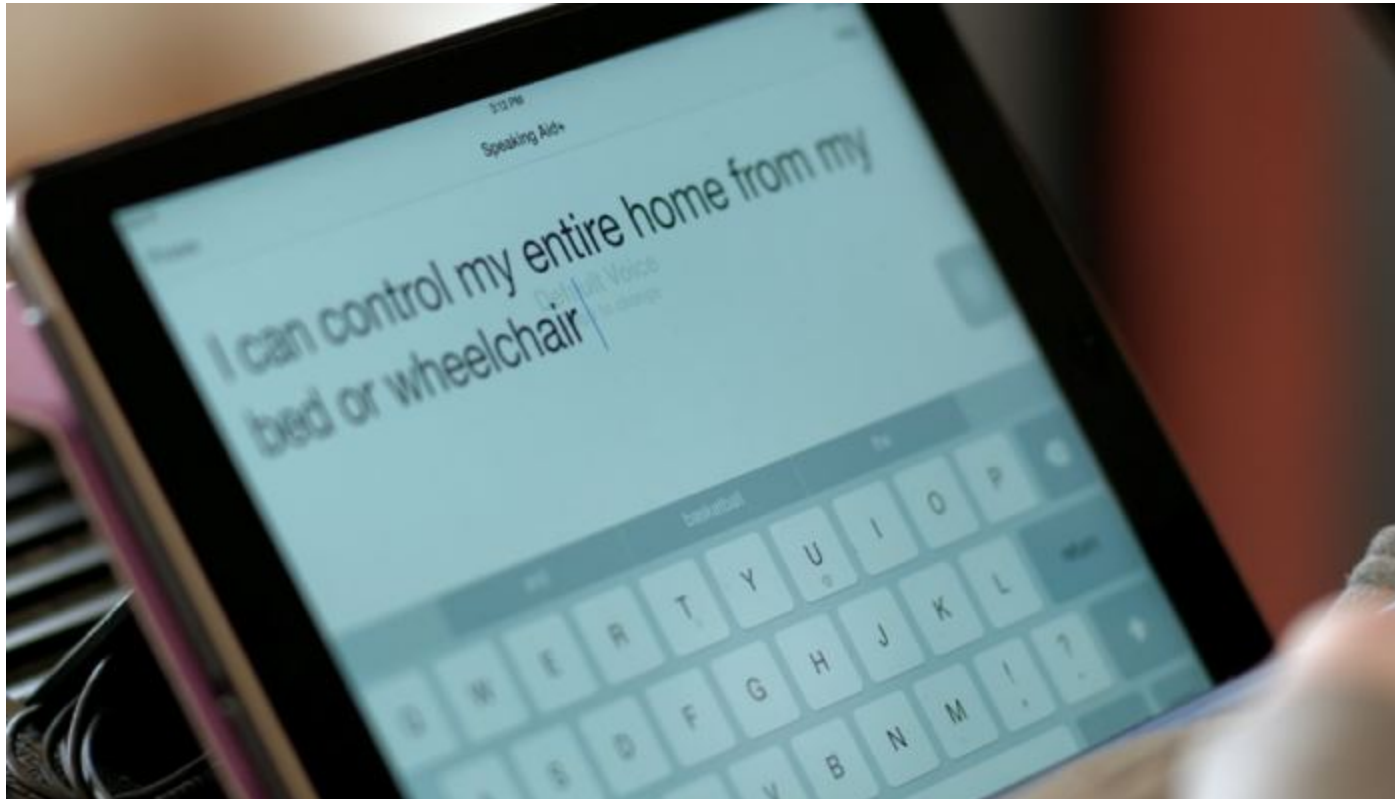
## Grab Bars



# Controlling the Environment

Ben J., Liz & Disability Connections

# Disability Connections – ECU



# Defining Environmental Control



- An environmental control device is a form of electronic assistive technology which enables people with significant disabilities to independently access equipment in their environment e.g. home, classroom and/or office.
- An environmental control controller is the device that controls the equipment – like a remote control. The controller is used to select a range of different options. Each option will control a piece of equipment in a certain way – for example: volume on a TV.



# Who needs Environmental Control?



- Anyone with complete loss or minimal ability to control devices in their immediate environment (such as the television, computer, phones, lights, doors, etc.).
- Technology that allows a people with disabilities to gain this type of control has been called an environmental control system and/or units (ECS, ECU).



# Types of Environmental Control



1. **Switch** - the user activates an accessible switch to control the environmental control unit, generally done through menu scanning.
  2. **Voice** - the user speaks the commands to the environmental control unit "turn on bedroom light."
  3. **Both**
- ✓ The more options available (switch, voice, or both) the more independence can be gained.
  - ✓ **Tip!** Look for the ability to customize or combine the control (input) devices to meet needs. While a voice-activated system can give the most independence, one's voice can become weak by the end of the day, so an ECU that can be controlled by both voice and switch may be very beneficial.

# Amazon Echo

amazon echo

Always ready, connected, and fast. Just ask.



- Speech-controlled speaker system
- Voice recognition - further distances
- All functions are server side
- Compatible with many EC Brands
- \$179.99

# Philips Hue Light Bulbs



- Wifi Connected
- Dimmable
- Displays Over 16 Million Colors
- Compatible with Amazon Echo
- Color Starter Kit \$174.99

# Schlage Z-Wave Keypad Lever



- Works with PIN, Key, or Z Wave
- Compatibility workarounds with Amazon Echo are not complex
- Independently manage security when paired with a security camera
- \$199.99

# Xbox One with Kinect



- Control your entertainment with your voice
- Netflix, Skype, Youtube, Internet Browser, Music, Television, etc.
- Gesture Control
- Price varies depending on bundle.
- Xbox One ~ ~~\$350~~ \$299
- Kinect ~ \$100


# Castle OS and Castle Hub



- Chris Ciccitelli has been a fan of Star Trek and was fascinated by the idea of a computer listening to you and taking any action requested. Sometimes it was just retrieving information, other times it controlled different ship functions.
- Chris worked for years creating a system for home automation/control that emulated the computer on Star Trek.
- Castle OS and Castle Hub are able to control all other EC devices regardless of what protocol it uses.
- This system operates using the microphone array in the Kinect camera to listen to you from anywhere in the room.



# Vera and Veralite



HOME PRODUCTS APPS ABOUT US BLOG SUPPORT BUY CONTROL How It Works ▶

## VeraLite

Smart Home Controller


Home / Controllers / VeraLite

Description Features & Specs Warranty & Support


### YOUR NEW ASSISTANT

HOME CONTROL DOESN'T HAVE TO BE COMPLICATED OR EXPENSIVE, SO WE CAME UP WITH THE VERALITE SMART CONTROLLER, WHICH IS SIMPLE AND INEXPENSIVE. IT MAY BE SMALL, BUT IT'S CAPABLE OF BIG THINGS!

- Easily manages up to 70 devices
- Plug and play with your Internet connection
- Controls over 750 smart products of all kinds
- Custom text and email alerts for any situation



VeraLite gives you easy control over lights, cameras, thermostats, door locks, alarm systems and more. Plus you easily can add intelligence to almost anything electronic in your home, and VeraLite can control them too. All the smart home benefits you've been looking for are right here in this easy, inexpensive add-on to your home network.




**AN AMAZING AMOUNT OF SMART TECHNOLOGY THAT FITS IN THE PALM OF YOUR HAND.**

VeraLite gives you easy control over lights, cameras, thermostats, door locks, alarm systems and more.

**ONLY \$179.95**

WHAT'S IN THE BOX

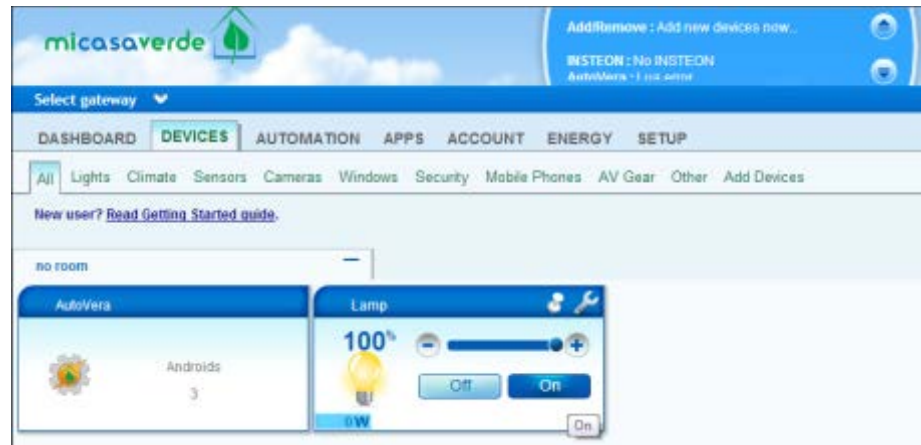




# Vera User Interfaces

Vera gateways can be controlled with a number of different interfaces.

- First Party Software
  - PC
  - MAC
  - Smartphone App
- Third Party Software
  - Smartphone Apps
  - TASKER! (Android only)



# Device Automation



Device automation is a type of application that allows you to really unleash your mobile device's capabilities.

In a nutshell, an automation app is a program that tells your device "When this happens, do this!"

- "When something is plugged into the headphone jack, open my music app"
- "When I open the navigation app, turn GPS on"
- "When my phone is connected to this cell tower, turn on wifi and connect to my home wifi"



# Device Automation Apps



- IF by IFTTT
  - If This Then That (IFTTT) is a simple free automation app available on both IOS and Android devices. IF allows you to create recipes easily or to use recipes others have already created.
- Tasker
  - Tasker is a more robust automation app for Android. It costs \$2.99 but offers more ways to trigger your automation and more in depth control of your device.



# Fact!

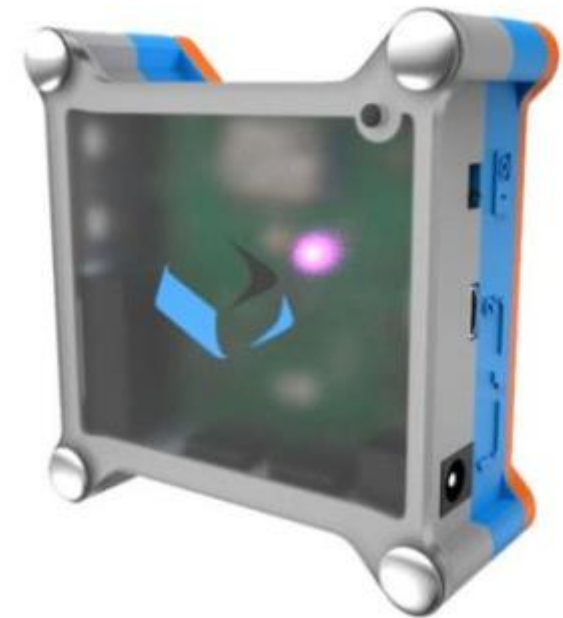


If you can control your computer, you  
can control your environment!



# Tecla Shield

- Wireless device that controls smartphones and tablets using your external switches or the driver controls of your power wheelchair
- The only switch interface that works with both iOS® and Android mobile devices.



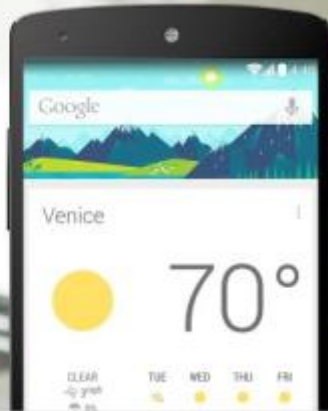
# Google Now

Google now    What is it    How to get it    Cards    [Get it now](#)

## Introducing Google Now

The right information at just the right time

From knowing the weather before you start your day, to planning the best route to avoid traffic, or even checking your favorite team's score while they're playing, Google Now brings you the information you want, when you need it.



Assistance around the clock

# Accessible Gaming

Carolyn & Ben J.

# TFL Gaming Initiative



- Tools for Life has recognized the importance of play and is starting an initiative dedicated to gaming with disabilities. Some objectives of the program are:
  - Demonstrate the accessibility of gaming
  - Build relationships with developers and aid in creating more accessible games
  - Increase public awareness of the importance of accessibility in games
- There are many benefits to playing games
  - Improved Hand/Eye coordination
  - Increased problem solving and cognitive function
  - Better handle stressful environments
  - Social outlet





# DragonCon



- We are pleased to announce we will be presenting a panel on Gaming with Disabilities at DragonCon again this year!
- Please join us on Sunday, September 4 at 7:00pm in Augusta E-G in the Westin Peachtree Plaza Hotel in Atlanta.



# FRU



- FRU is a puzzle platformer that features an innovative use of Kinect, in which your silhouette becomes a "portal" between two worlds.
- Encourages physical movement, activity, and cognitive function.
- Can be played individually or cooperatively.

# XOGO



- The first fully customizable adapter that connects people with disabilities to consumer technology.
- Compatible with USB and HID devices, switches, game controllers, and Bluetooth.
- Control for your console as well as cable boxes, media devices, and smart home technology.

# Xbox One Elite Wireless Controller



- First party controller with accessibility features.
- Modular construction includes multiple thumbsticks, directional pads, and paddle buttons.
- Remap any input to any button.
- Highly customizable.

# QuadStick



- Mouth operated game controller for those living with Quadriplegia.
- Joystick, four sip and puff sensors and a lip position sensor.
- Compatible with PS3, Android, and PC.
- USB adapter allows control of Xbox 360, Xbox One and PS4.

# Xpadder

- Xpadder is a free program for Windows that allows you to configure the inputs on most videogame controller any way that you like.
- You can have media controls assigned to different buttons so you can easily pause or control volume.
- The mouse as well as the keyboard are easily emulated on the controller as well.



# TrackIR



- TrackIR is an optical motion tracking game controller for Microsoft Windows
- Tracks head motion with up to 6 degrees of freedom.
  - Forward/Backward
  - Left/Right
  - Up/Down
  - Roll
  - Pitch
  - Yaw



# Boogie Dice

- First self rolling, sound activated, programmable dice.
- Activated using sound.
  - Clap, snap, thump
- Set roll duration, LED colors and more.
- Smartphone app can also be used to activate the dice.





# AT for Vision

## Martha and Danny

# Hawkeye Ultra-lightweight Golf Scope



- Fits easily in the palm of your hand
- Fixed focus
- No focusing necessary



# Magnifiers

- Lots of different types
- Handheld
- Some with a LED Light
- Full Page



# Pixie

- Maps all of the digital things in your life
- Place a pixie chip on any device and map will tell you it's precise location
- <https://www.getpixie.com/>



# iBeacon Technology

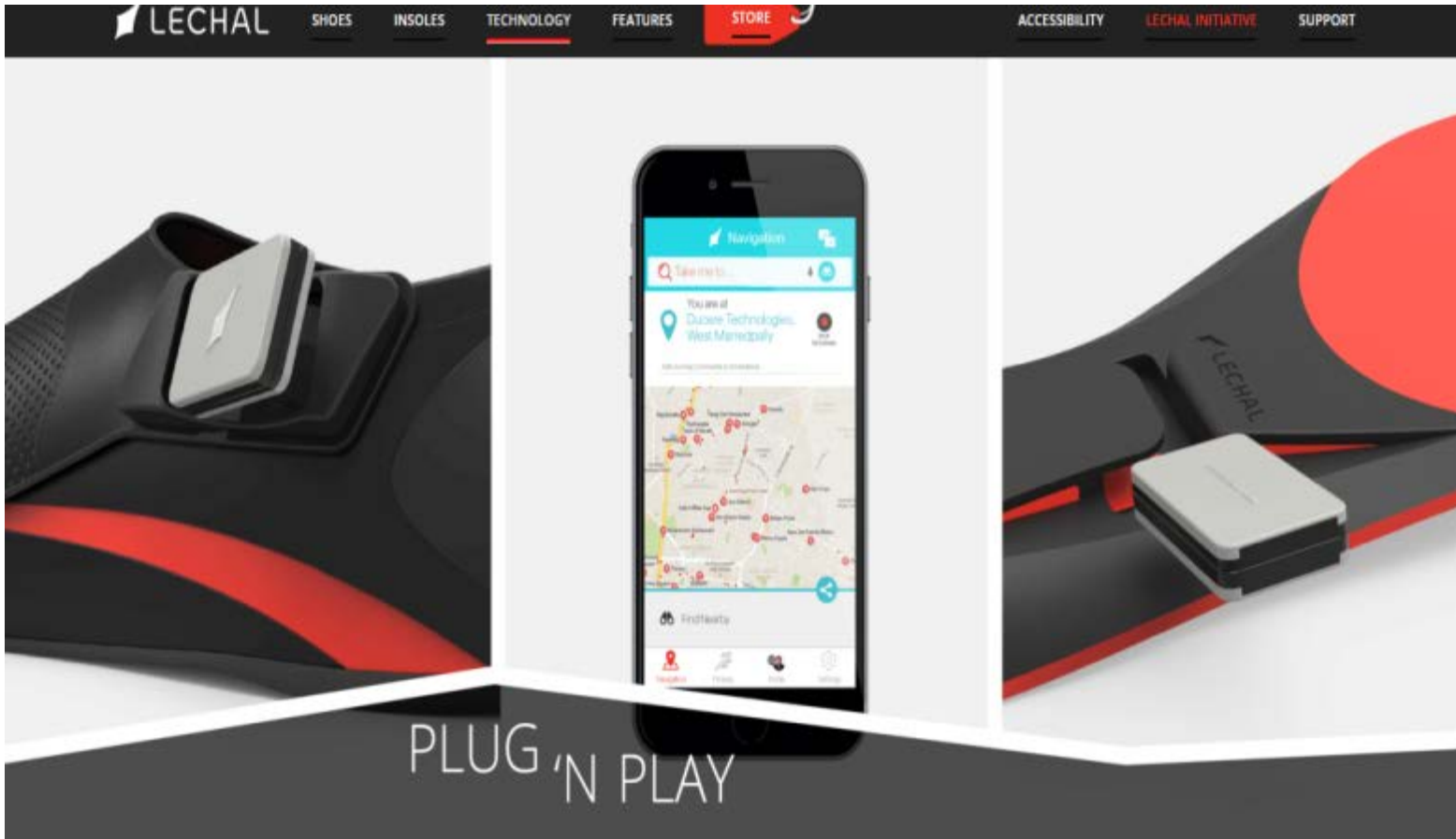
- Estimote Beacons
  - Wireless sensors that attached to any location or object
  - Broadcasts radio signals to smartphone
  - <https://www.youtube.com/watch?v=lwnmx-5mBLM>



# Lechal

- Haptic Footwear
- Uses GPS to let you know where you are
- Connects with app
- [www.lechal.com](http://www.lechal.com)





LECHAL

SHOES INSOLES TECHNOLOGY FEATURES STORE

ACCESSIBILITY LECHAL INITIATIVE SUPPORT

Navigation

Take me to...

You are at  
Ducere Technologies  
West Minneapolis

Find nearby businesses in this area

First Party

PLUG 'N PLAY

# AT for Hearing

Danny and Sam



# Assistive Listening Devices

- Audio/Hearing Loop
- Infrared System
- FM System
- Wearable device



# Visual Alerts

- Visual doorbells
- Flash on your cellphone
- Smoke/carbon monoxide detectors
- Flashing computer screen



# Physical Alerts

- Haptic alerts on phone and wearables
- Vibrating alerts
- Bed shaker



# Hearing Aids



- Hearing aids can be expensive and aren't always covered by insurance
- Explore your options, many hearing aids will pair with mobile devices
- Will amplification work?
- Cochlear implants are often covered by insurance, but are more invasive



# How Do I Get AT for Hearing?

# iCanConnect/GA



- National Deaf-Blind Equipment Distribution Program
- For consumers with dual sensory disabilities
- Income cannot be more than 400% of the federal poverty level
- GA Resident, phone/internet service, certificate of need, proof of income
- Equipment costs the consumer nothing (includes training)
- [www.gachi.org](http://www.gachi.org)



# GATEDP



- **Access to Telecommunications equipment (operated by GACHI)**
- **Eligibility:**
  - **Income requirements**
  - **Certified Deaf, Hard of Hearing, Deaf-Blind or have a speech disability**
  - **GA Resident**
  - **Have phone service**



# Georgia Lions Lighthouse



- **Programs for Vision and Hearing**
  - **1 pair of glasses every three years**
  - **Mobile eye clinic**
  - **Up to 2 digital hearing aids**
  - **1 set of ear molds**
  - **3 year service warranty**





# What is Credit-Able?



## Alternative Financing Program for Georgia

Low interest, small loans

**\$250-\$5,000**

**Interest rate of 5-9%**

**Used for:**

**Equipment**

**Software**

**Home mods**

**Vehicle mods**



# Why Credit-Able?

- **Flexibility**
- **Personal**
- **More accessible**
- **Build/re-build credit**
- **You save money**



# Eligibility Criteria

**Be a resident of Georgia**

**AND**

**A person  
with a  
disability**

**or**

**A family  
member/guardian  
of a person with a  
disability**

**or**

**An employer of  
a person with a  
disability**

**AND**

**Be able to pay  
back the loan**

**&**

**Using the loan  
for AT**

# Dollars and Sense



- Your online funding guide
- Create and add resources
- Local, statewide and national
- <http://gatfl.gatech.edu//ds>



# **Wearables**

**Martha and Danny**

# Apple Watch

- Receive Calls and texts
  - “Inner Circle”
- Apps
- Can be used for fitness
  - Heart Rate Monitor
  - GPS
  - Accelerometer
- “Hey Siri”
- Haptic feed back
- Calendar
- \$499



# FitBit

- Fitness tracker
- Variety of styles and colors
- Track Activity
- Track Food
- Track Sleep
- Track Heart rate
- Works with other Apps
- New Smartwatch



 fitbit®  
Discover a whole  
new world of fitness.



# Microsoft Band

- Works across all platforms
- Receives calls and texts
- Uses Cortana
- Keep tracks of steps
- Keeps track of Sleep
- Keeps track of UV
- Keeps track of heart rate
- Choose apps
  - Facebook
- \$199





# Watchminder

- Rechargeable battery
- 65 pre-programmed messages to choose from
- 30 daily recurring alarms
- Create your own personalized messages
- Helpful training and reminder modes
- Vibrating alert



# Lumo Lift

- Lumo for back and head/shoulders
- Sends gentle vibration alert when posture needs to be corrected



# GPS Tracking Devices

- Find My iPhone
- Find My Friends

## 10 Tracking Devices that Keep Loved Ones with Dementia Safe



Wandering adds more confusion to the lives of those already dealing with a disorienting disease, and leads many people with Alzheimer's or dementia into unsafe situations. Location and elderly GPS tracking devices for dementia are an increasing option for families and caregivers trying to reduce wandering.

Here are 10 location devices that are being used to keep loved ones with the disease safe:

### 1. iTraq

A new cellular tracking device that came out this year, iTraq is the "world's first global location device that can be found anywhere." It uses cellular towers to determine location, allowing it to be used anywhere there is service around the world. The device itself is as small as a credit card, and its location is reported to you through a mobile application which allows you to view a map of locations and timestamps. iTraq also features a "Guard Mode" where users can specify a radius on a map, then receive alerts if/when the iTraq goes beyond your pre-set radius. This means that you could receive notification if a loved one wandered from home, and also be able to track where they are with accuracy.

### 2. Project Lifesaver

Fulfilling their mission to "provide a timely response to save lives and reduce potential injury for adults and children who wander due to Alzheimer's, autism and other related condition or disorders," Project Lifesaver's GPS tracking program has helped rescue 2,983 people. [We spoke with Gene Saunders](#), Chief Executive Officer and Founder of Project Lifesaver, who shares more about the technology – a small PAL (Protect and Locate) tracker worn around the wrist – that has saved so many from wandering. "Citizens enrolled in Project Lifesaver wear a small personal transmitter around the wrist or ankle that emits an individualized tracking signal. If an enrolled client goes missing, the caregiver notifies their local Project Lifesaver agency, and a trained emergency team responds to the wanderer's area. Most who wander are found within a few miles from home, and search times have been reduced from hours and days to minutes. Recovery times for PLI clients average 30 minutes: 95% less time than standard operations." Saunders adds: "Recently, Project Lifesaver has added a new technology... that can also provide a radio frequency safe zone around them that notifies the caregiver in the event an at-risk individual breaches this established safe zone."

### 3. Mindme

Mindme offers assistance to families dealing with dementia and wandering in the form of both an alarm and

# B-Calm

- “acoustic shield”, allowing the individual to have control of the sound environment
- helps reduce off task behaviors and irritability
- disturbing noises are blocked and replaced with familiar and soothing sounds



# Snug Vest

- inflates to provide adjustable and evenly-distributed pressure to the torso for a comforting hug-like squeeze without pressure placed on the stomach or chest.
- promotes independence as the user can self-inflate their vest in a discrete way to get the exact amount of safe pressure they need. Snug Vest enables the user to complete daily tasks with ease anywhere they go!



# T. Jacket

- Wearable technology vest
  - Provides customizable deep touch pressure
    - Uses adjustable air pressure compression controlled via smartphone app
  - <http://www.mytjacket.com/>



# Our Favorite Apps for Living

Martha and Rachel

# TFL AppFinder

## Search by:

✓ **App Name**

✓ **Categories**

- Book
- Education
- Environmental Adaptations
- Hearing
- Cognition, Learning, Developmental
- Navigation
- Personal Care and Safety
- Productivity
- Communication
- Therapeutic Aids
- Vision





# ICE - In Case of Emergency



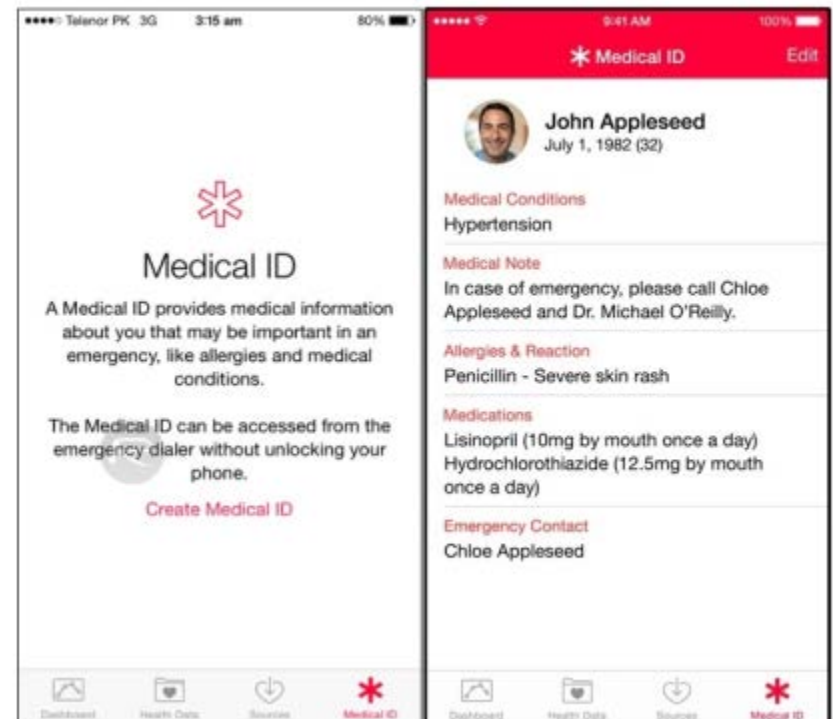
- Emergency contact list
- Central place for you to record any medications
- List allergies or medical conditions
- Pre-loaded medical information to choose from
- Free
- [www.ice-app.net](http://www.ice-app.net)

The screenshot shows the ICE app interface on a mobile device. At the top, the status bar shows 'AT&T LTE' and '7:37 AM'. Below the status bar is a red medical cross icon and the text 'In Case of Emergency Standard'. To the right of this is an 'Edit' button. Below this is a yellow profile card for 'John Doe - Medium risk' with a photo, address '123 Main Street, Anytown, USA 12345', and 'DOB: 5/4/1984 Sex: M'. Below the profile card is a section titled 'EMERGENCY/MEDICAL CONTACTS' with two entries: 'Jane Doe' with phone number '(234) 567-8910' and 'Dad' with phone number '(343) 466-4644'. Below this is a section titled 'MEDICATIONS' with the entry 'Acetaminophen'. Below that is a section titled 'ALLERGIES' with the entry 'None'. Below that is a section titled 'CONDITIONS & MEDICAL DEVICES'. At the bottom is a navigation bar with four icons: a blue cross for 'Emergency Info', a car for 'Auto Info', a person for 'Displaying Info', and a lightbulb for 'About the Kids'.



# Apple iPhone Medical Id

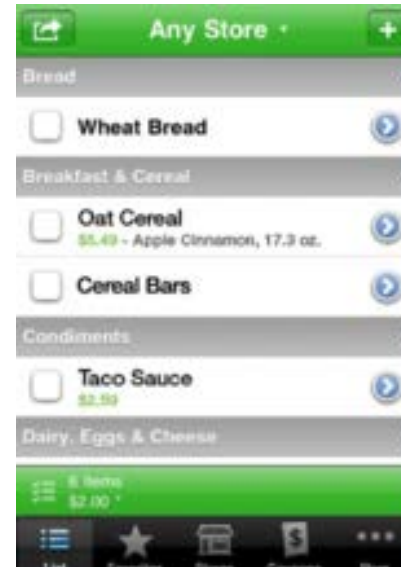
- New
- Create Medical ID
- Can be used without passcode
- Medical Conditions
- Medications
- Emergency numbers
  - Can call
- Organ Donor
- Blood Type



# Grocery IQ



- Pictorial shopping list
- Customize different lists for different users using pictures on camera roll
- Add your own items and categories
- Assign item prices
- Assign item locations (for example, aisle numbers)
- Several accessibility options
  - text-to-speech
  - uses large easy-to-see images
  - item prices automatically totaled
- \$4.99

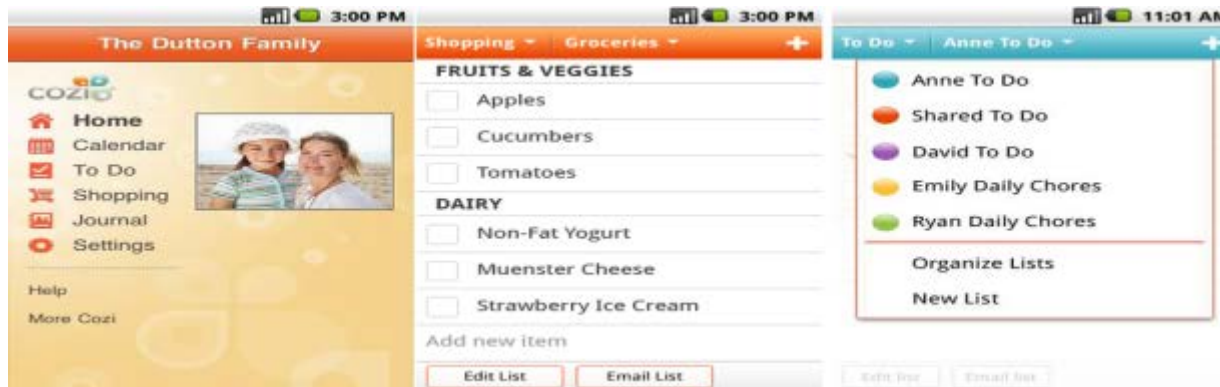


# Calendars



## COZI Family Organizer

- Family Calendar: Easy to use color-coded calendar, see individual schedules or the whole family at once
- Reminders: Set reminders for anyone in the family and get a weekly email of upcoming appointments
- Shopping and To Do Lists: Create as many lists as you want and access them anytime, anywhere
- Meals and Recipe Box: Easy to use dinner planner, plus store all your favorite recipes
- One Account for the Family: Everyone's schedules and lists in one place the whole family can access



# MyMedSchedule



- Keep track of medication
- Reminders
- Refill Reminders
- Healthcare Provider Profiles
- Insurance Information
- Allergies
- Works across Platforms
- Free
- [www.mymedschedule.com](http://www.mymedschedule.com)



# Apps for Mood/Emotion Management

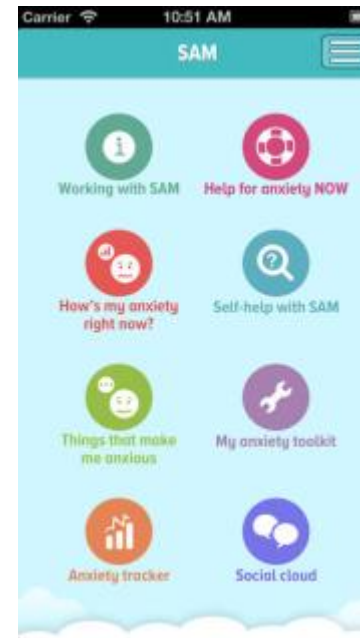


- **Operation Reach Out (free iOS, Android)**
  - Developed by military to prevent suicide
    - Helps access thinking and when to reach out for help when in crisis
- **T2 Mood Tracker (free iOS, Android)**
  - Allows users to monitor moods on pre-loaded scales
- **MindShift (free iOS, Android)**
  - Tools for relaxation; develops new thinking; suggests healthy activities
- **Breathe2Relax (free iOS, Android)**
  - Uses guided breathing exercises to reduce anxiety



# Anxiety Management

- Self-Help for Anxiety Management or SAM (free iOS, Android)
  - Tell the app how you're feeling, how anxious you are, or how worried you are.
  - Self-help features walk you through some calming or relaxation practices.
- iZen garden (\$4.99, iOS)
- Koi Pond (\$1.00, iOS)





# Apps for Sleep Management

- Sleep Time-Alarm Clock (free, iOS, Android)
- Sleep Cycle (\$1, iOS, Android)
- Sleepbot ( free, iOS, Android)



Monitors sleep habits

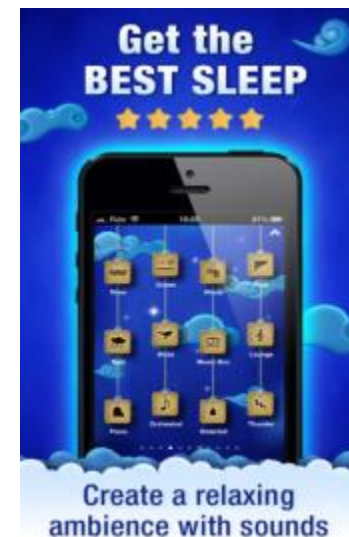
Uses accelerometer in the smartphone, tells you how quickly you fall to sleep, when you enter each phase of sleep, and how efficient each sleep cycle is. The app gently wakes you up at the right time, not in the middle of a deep sleep.





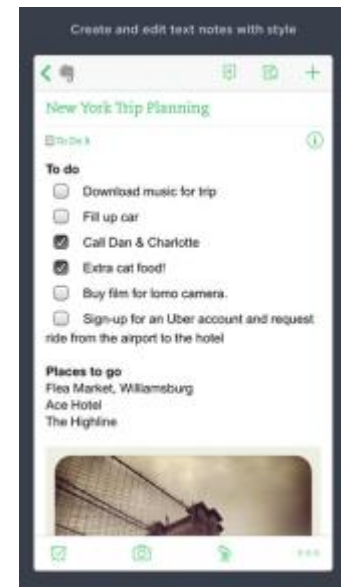
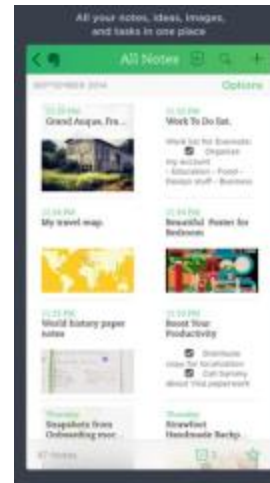
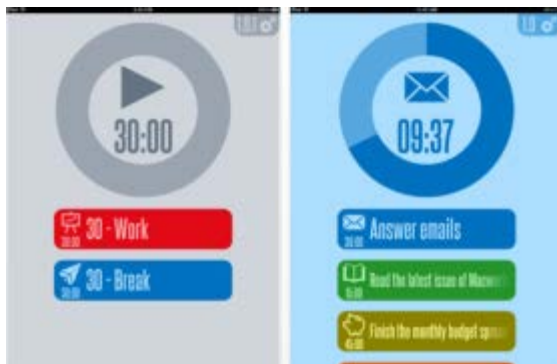
# Relax Melodies: Sleep & Yoga

- FREE!
- iOS and Android
- Relax Melodies is the LEADER in personalized relaxation and sleep assistance. No more lacking of sleep or insomnia for you! The sleep that you need and want is waiting for you. Relax Melodies and its many features such as high quality white noise sounds, music melodies and complete customizable mixes will help you sleep like never before!
- Here's how it works :
  1. Create a sleep mix by selecting sounds and music that you like.
  2. Slip naturally into a relaxed state or a deep sleep!
  3. Awake, feel refreshed and happier
  4. Do it again, anytime!
- Use it also in many other situation such as while exercising, during your yoga meditation sessions, while massaging, during a quick nap or even to help your baby fall asleep faster!

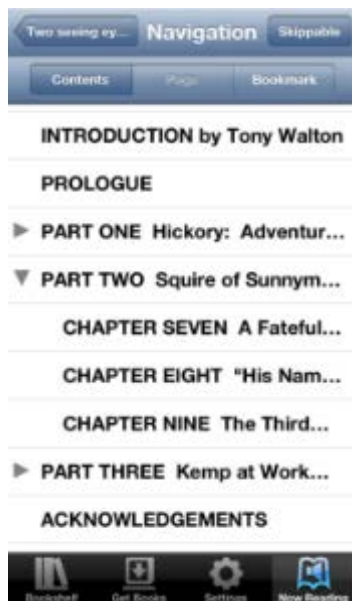


# Task Management

- Evernote (free, iOS, Android, Windows)
  - allows you to store text, photos, and audio notes on your device of choice. Create "notebooks" and categorize notes for meetings and to-do lists. Notes are tagged with geo-location for mapping or search. Keep all info in one place
- 30/30 (free, iOS, Android, Windows)
  - Set up tasks and time needed to complete
  - App will tell you when to move onto next task



# BARD Mobile



- Access directly to the National Library Service for the Blind and Physically Handicapped (NLS)
- Must be registered
- Settings
- Can use with braille display
- <http://www.loc.gov/nls/find.html>
- Free, iOS

# **AT Reuse**

**Carolyn, FODAC, and Walton Options**

# Friends of Disabled Adults and Children - FODAC



- With a strong network of volunteers and partners, FODAC provides refurbished equipment and services improve their overall quality of life.
- Refurbished items can be cost effective
- FODAC is a partnering agency and have programs for:
  - Durable Medical Equipment
  - Home Mods
  - ReMount
  - Disposable Medical Equipment
- [www.fodac.org](http://www.fodac.org)



# Walton Options Introduction

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**Behind every Reused Assistive  
Technology device there is –**

***A Story to be Told,  
A Dream being Realized,  
A Goal being Met.***

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# STAR Network

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## Why Reuse ?

- Promotes increased independence and participation in
  - Education
  - Workplace
  - Home, Recreation, and the Community
- Decreases cost for consumers and agencies
- Stretches Existing Insurance and Disability Benefits



# Policies

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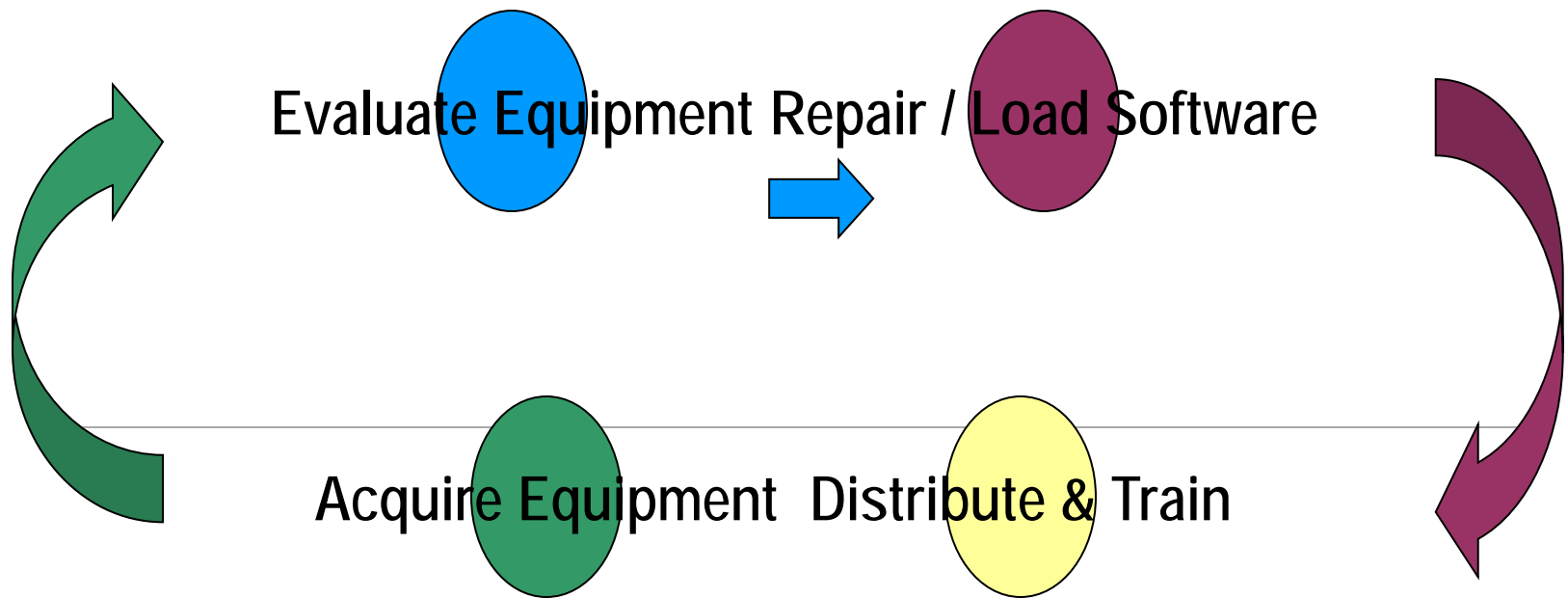


- Unification & Decision Making
- Depot Team Meetings & Communication
- Service Delivery Model & Liabilities
- Methods, Procedures & Liabilities
- Data Collection & Tracking
- Sustainability Document



# Depot Product Control Flow Chart

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# HubScrub

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- Sanitization
- Easy to use
- Affordable
- Quick



# HubScrub – Cont'd

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- HubScrub's innovative spray system
- Spray pressure
- Computer controlled dispensing of chemicals
- Spacious wash chamber



# Wrap up and Next Steps

Nicki Wilson – DBHDD  
Carolyn Phillips - Tools for Life

# Next Steps!



- ✓ Public Awareness
- ✓ Trainings in the Community
- ✓ Person Centers AT Consultations & Services
- ✓ Follow Up & Follow Along



# Questions?





# Thank you!

## Adjourn

(and start spreading the word!)

# TOOLS *for* LIFE

Georgia's Assistive Technology Act Program

thank  
you





# The Tools for Life Team



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