Strategies for Successful Inclusion of Assistive Technology throughout the No Wrong Door System

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Georgia Department of Human Services Division of Aging Services

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With contributions from TFL Team

www.gatfl.org

For Handouts: http://www.gatfl.gatech.edu/tflwiki

www.amacusg.org
Assistive Technology (AT) helps individuals with disabilities, older adults and caregivers to successfully engage in life and receive health care. Come learn from the Georgia Division of Aging Services, HHS | ACL | AT Act, and Georgia Tech’s Tools for Life Program and explore AT devices and services to support LTSS. This presentation will focus on putting knowledge into action, sharing models and exploring AT trends to watch. Presenters will share AT implementation solutions for:

- AAAs and ADRCs,
- Independent Living Centers, and
- Partner organizations ready to connect NWD participants to the State AT Act Program.

1. **Learning Objectives:**
   1. Participants will be able to identify their AT Act Program.
   2. Participants will be able to describe 3 effective AT solutions for aging.
   3. Participants will be able to describe 3 effective AT service Models for seniors.
   4. Participants will be able to define assistive technology and assistive technology services.

2. **Outcomes to Consider:**
   1) Selection and creation of over 25 AT Toolkits for Aging in 5 states.
   2) Development of an AT decision tree algorithm for 15 different categories related to aging in place.
   3) Assisting in considering AT solutions in over 250 nursing home transitions.
TFL and Division of Aging Services
Growing Relationship

• Since 1991, Division of Aging Services (DAS) and TFL have partnered and collaborated. This partnership grew in 2008 and has grown significantly through Georgia’s No Wrong Door System design and implementation.
• This includes:
  – Participating on various advisory boards and committees committed to ensuring assistance and resources for individuals with disabilities and/or naturally aging process.
  – Development of AT ToolKits, AT Labs, AT Trainings AND AT!
  – Collaborations on Town Hall Meetings, Webinars, Trainings and Conferences,
  – Nursing Home Transitions and Successful Aging in Place Partnerships,
  – Leveraged funding,
  – Trusted Relationships – DBHDD, GDOE, GVRA and Aging Networks,
  – Development of AT Decision Tree/Algorithm,
  – AND More!
Leveraging Georgia’s No Wrong Door Opportunity

- Began with Hanging Out with Intent
- Planful Approach to Partnerships
- Defined Goals, Objectives and Timelines
- Building and expanding upon trusted relationships
- Developing New strategic relationships
- Develop win-win-win relationships
- Success breeds success
- Keep it Going/Growing
About

The No Wrong Door (NWD) System, including Aging and Disability Resource Centers (ADRC), represents a collaborative effort of the U.S. Administration for Community Living (ACL), the Centers for Medicare & Medicaid Services (CMS), and the Veterans Health Administration (VHA), to support state efforts to streamline access to Long Term Services and Supports (LTSS) options for all populations and all payers.

Resources

ACL, CMS and VHA support state development of a NWD System to assist individuals in accessing LTSS. In this section, you will find a collection of resources that describe the federal NWD vision and strategies to build the capacity of state NWD Systems.

Tool Access

This NWD Management Tool is intended to help states track progress towards the NWD System vision.

NOTE: The Management Tool is currently being piloted and is only accessible to Part A States.
Long-Term Services & Supports
State Scorecard

A State Scorecard on Long-Term Services and Supports for Older Adults, People with Physical Disabilities, and Family Caregivers

Scorecard Reports  Methodology  Promising Practices  Publications  About  Explore the Data

Drill into performance indicators for a single state or compare performance and rankings on measures of long-term services and supports across states.

View by State:
Select a State

Compare Across States:
Select an Indicator

What is the Scorecard?
The Scorecard looks across all categories to measure state-level LTSS system performance from the viewpoint of users of services and their families.
Read more

What are LTSS?
LTSS consist of a broad range of day-to-day help needed by people with long-term conditions, disabilities, or frailty.
Read more

How can the data be used?
The Scorecard provides comparable state data to: benchmark performance, measure progress, identify areas for improvement, and improve lives.
Read more
Welcome
Welcome to the new Assistive Technology Act Technical Assistance and Training (AT3) Center web site. Please be patient as we build and grow this website to support quality implementation of the Assistive Technology Act. The AT3 Center is responsible for providing training and technical assistance for all AT Act Section 4 grantees, known as State AT Programs, including supporting all authorized state level and state leadership activities. A separate technical assistance provider, the National Disability Rights Network, is responsible for providing training and technical assistance for the AT Act Section 5 grantees as part of their overall technical assistance to Protection and Advocacy agencies. The AT3 Center will also establish and curate a national public AT internet resource portal to make general AT information available to the public and other stakeholders.

The AT3 Center is a sponsored project of the Association of Assistive Technology Act Programs (ATAP) operated under a five year grant (2016 – 2021) from the Administration for Community Living ACL, U.S. Department of Health and Human Services.

AT3 News
For initial communication and information dissemination, the AT3 Center has established the About AT listserv for all interested individuals. Please click on the following link to request to be added to this listserv - About AT listserv.
## Assistive Technology Act Program

| Program Lead (and Backup) | Robert Groenendaal, Assistive Technology Program Manager  
330 C Street, SW, Suite 1317B, Washington, DC 20201  
(202) 795-73556; Robert.Groenendaal@acl.hhs.gov  
(No Backup) |
|---------------------------|----------------------------------------------------------|
| Last 3 years of funding history (FY 2015 - 2017) | **FY 2015** Assistive Technology Act Non-P&A Total - $26,660,000  
**FY 2016** Assistive Technology Act Non-P&A Total - $27,450,000  
**FY 2017** Assistive Technology Act Non-P&A Total - $27,450,000 |
| Current staffing | 1.0 FTE |
| What data is collected on the program and how / where is it collected? | Assistive Technology Annual Performance Report (AT APR)  
State Plan for Assistive Technology  
Data currently submitted in the CATADA system,  
www.CATADA.info  
UMass-Boston, Institute for Community Inclusion |
**Assistive Technology Act Program**

<table>
<thead>
<tr>
<th><strong>What is the mission of the program?</strong></th>
<th>The mission of the AT Act Program is to serve people with all types of disabilities, of all ages, in all environments, and provide a wide array of activities to meet AT needs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What is the legislative authority for the program?</strong></td>
<td>Assistive Technology Act of 1998, as Amended (Public Law 108-364)</td>
</tr>
<tr>
<td><strong>What are the goals for the program?</strong></td>
<td>The overall goal of the AT Act Program is to increase access to and acquisition of AT devices and services through comprehensive state-level and state leadership activities.</td>
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</table>
## Assistive Technology Act Program

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
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<tbody>
<tr>
<td>Who are the grantees and is it mandated to go to certain entities?</td>
<td>56 State and Territory Grants for AT Lead Agencies designated by the Governor.</td>
</tr>
<tr>
<td>How do we perform oversight on the grantees?</td>
<td>ACL monitors the program through the review of State Plans for AT, annual financial reports and annual performance reports.</td>
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<tr>
<td>How do we assist the grantees?</td>
<td>ACL assists grantees by managing the development of state plans, submission of annual programmatic and financial data, and the provision of technical assistance and training to the state AT programs.</td>
</tr>
</tbody>
</table>
### Describe “success” for this program.

Success for AT Act state programs means that individuals with disabilities, including those who are aging, are able to access and acquire AT devices and services to maintain or improve independence in their communities, obtain or retain employment, or benefit from education.

### What performance measures do you use?

**Return on Investment:** In FY 2016, 56 State AT Act programs returned close to $65 million in savings and benefits with a $26.5 federal investment in State AT programs.

**Leverage funding to provide services:** $16,945,835 is leveraged from federal, State, local and private sources by state AT programs to maximize critically needed AT services. Over 750,000 individuals received direct services from their State AT program in FY 2016.
## FY 2016 AT Act Data

<table>
<thead>
<tr>
<th>Access Activities</th>
<th>72,808 individuals participated in device demonstrations.</th>
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<tr>
<td>Device Demonstration</td>
<td>54,274 devices were borrowed from short-term device loan programs.</td>
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<tr>
<td>Device Loan</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Acquisition Activities</th>
<th>63,249 recipients acquired 79,223 devices for a total of $31,673,585 in savings by obtaining gently used AT instead of new.</th>
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<tbody>
<tr>
<td>Device Reutilization</td>
<td>842 borrowers obtained financial loans = $6,425,783. Through other state financing programs, 2,341 recipients acquired 3,076 devices valued at $3,534,875 and 2,374 individuals received 3,628 devices with a savings of $2,132,198.</td>
</tr>
<tr>
<td>State Financing</td>
<td></td>
</tr>
</tbody>
</table>
**Georgia DHS/DAS Mission**

**Department Mission:** Strengthen Georgia by providing Individuals and Families access to services that promote self-sufficiency, independence, and protect Georgia’s vulnerable children and adults.

**Division Mission:** The DAS Mission supports the larger goals of DHS by assisting older individuals, at-risk adults, persons with disabilities and their families and caregivers to achieve safe, healthy, independent and self-reliant lives.

**NWD Mission:** To establish a coordinated NWD system that provides accurate information, comprehensive and timely assessments, and person-centered counseling for all individuals to facilitate informed choice and promote decisions to maintain, improve and sustain quality of life.
Tools for Life Mission

We’re here to help Georgians with disabilities gain access to and acquisition of assistive technology devices and assistive technology services so they can live, learn, work, and play independently in the communities of their choice.
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 this mission.
TFL’s Solution Website
TFL AT Demo Lab

- Tablets
- Vision & Hearing
- DME
- Communication
- Games
- Software
- Switches
- Keyboards
- More!
AT Acquisition!

• Tools for Life endeavors to break down the barriers which prevent individuals with disabilities, their families, and service providers from acquiring and effectively using Assistive Technologies to gain greater independence.

• To insure that AT products are available to Georgians with disabilities

• Eliminate Funding Barriers
DAS & Tools for Life
Transformational Partnership

• Direct Service:
  – AT Evaluations – Aging in Place
  – AT Demonstration – Exploring what AT solutions are available
  – AT Lending Library – “Try Before You Buy”
  – AT Reuse – Bridging Gaps for smoother transitions (Ensuring safe, appropriate and effective Reuse)
  – Lead to AT Toolkits in every AAA and ILC and more AT Labs throughout Georgia
  – AT v. Waiting Lists

• State Leadership:
  – Providing AT training to AAA, ADRC and MFP - Options Counselors to build awareness and knowledge
  – Providing Technical Assistance - Policy for AT Consideration
  – Providing Technical Assistance – Ensuring Quality AT Services throughout Georgia

• Development of National AT Decision Tree/Algorithm Tool based on DONR
DAS and TFL – Success!

• AT Evaluation Pilot program began August 2015:
  • Proof of Concept – AT is a Key Factor to Success
  • Started in 2 Regions:
    – Atlanta Region (Urban)
    – Southeastern Georgia Region (Rural)
• TFL Customized AT Evaluation Process for MFP:
  – In home and/or in nursing home
  – AT Research support to determine appropriate AT to meet needs of individuals
  – AT Report/Roadmap - extensive written report with AT recommendations and resources
  – Follow-up and follow-along consultation
• Building on these AT Services for DAS:
  – AT Demonstration
  – AT Lending Library – “Try Before You Buy”
  – Quality AT Reuse - Bridging Gaps for smoother transitions

Success – Expanded to All Regions in Georgia in 2017
Where to Begin - including AT in NWD

• Do you know Your AT Act Program?
• Discovery:
  – What are your possible points of collaboration?
  – Start small and grow
  – Have defined goals, outcomes and timelines
  – What does Success Look Like?

• Possible Points of Partnership:
  – ICT Accessibility
  – AT Webinars and Trainings
  – AT ToolKits
  – AT Labs
  – AT Demonstrations
  – AT Lending Libraries
  – AT Reuse
  – AT Funding
Meet Lisa!
AT and DAS – Expanding AT Access

• Lead to AT Tool Kits in all AAA /ADRCs
  • AT from all areas to support people with disabilities and the natural aging process
• AT Solution Lab at MFP and Aging-related Conferences

• AT Solution Lab at the Coastal Area Agency on Aging Georgia
  • Coastal AAA/ADRC Won the 2016 AIRS Distinguished Service Award for their work with the AT Lab.
  • Presented at the Awards Luncheon at the 2016 AIRS Conference in St. Louis.
  • AIRS is the premier professional membership association for community I&A with over 5000+ national and international members
Assistive Technology Research & Developments

Training Objectives:

• Bring together academics, researchers, industry, practitioners, & consumers
• Provide opportunities for ongoing collaboration between these groups
• Educate on what is new and what is on the horizon
Rapid-Fire (Brainstorming) Breakout Sessions

What is the goal?

- Consumers (end users)
- Practitioners
- Industry Reps
- Researchers
- Designers
Engineering Design Process

1. Identify / Define the Problem
2. Research the Problem
3. Design Requirements
4. Design a Solution / Concept
5. Prototype Solution
6. Evaluate Solution
7. Results

Rapid-fire Breakout session

Next Steps

Iterate

Needs Improvement
Design, Technology & Aging
From Problem to Product

Brian D. Jones
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Senior Research Engineer, Interactive Media Technology Center, RERC
TechSAge, Wireless RERC

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TechSAge research is funded by the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR grant number 90RE5016-01-00). NIDILRR is a Center within the Administration for Community Living (ACL), Department of Health and Human Services (HHS).
Universal design is design for everyone who lives long enough
Need for AT Knowledge Transfer

• A Lot of Gaps in AT awareness and knowledge
• AT is undeniably linked to Successful Transitions and Independent Living
• Need to ask more questions – Some “don’t know what they don’t know…”
• Many Red “Flags”!
• Using AT to turn RED “flags” to Green “Flags”
Examples of many common hazards in the home

- Examples of Some “Red Flags”
- Medication errors
- DME never used
Development of National AT Decision Tool/Algorithms

• Real-time Tool to Share What Works
  – Learning from each other
  – AT solutions, strategies, resources
  – When to call in a professional
• Smart-Sourcing Approach
• Hosted 2 Workshops – Georgia
• Hosted National Workshop at ATIA in 2017
• Growing into Specific areas – Dementia, Mental Health, etc.
Information and Communication Technology (ICT) Accessibility

https://www.edx.org/course/information-communication-technology-ict-ict100x
Contributors

Information and Communication

and hear from international ICT accessibility professionals
This module will explore assistive technology (AT) as it relates to accessible electronic information and communication technologies (ICT). This module will also provide participants/students with the tools needed to identify challenges present in ICT environments, and will provide solutions that can assist with improving accessibility and promote inclusion.
What Works and What is New In AT and the AT Community:

• Were we Are and Perhaps, Where We Are Going
Assistive Technology Matching: Person Centered Approach

- The Person First
- Circle of Support – Family of Choice
- Case Managers
- Technologist
- Occupational Therapist
- Speech & Language Pathologist
- Physical Therapist
- Engineer
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*
Staying off the “FAST” Track

- Frustration
- Anxiety
- Stress
- Tension
Reminders

• Built-in App
• Organize your reminders
• Siri
How to use Speech Recognition
Overview of the Human Factors and Aging Laboratory

Points of Excellence

- Our research advances both science and practice
- We aim to improve quality of life for adults of all ages
- Students graduating from our lab are very successful

Resources

Senior-to-Senior Brochure
acceptance. Contexts for the discussion will include aging-in-place and health care.

**Presentation 2: Human-Robot Interaction: The Potential to Support Successful Aging**

There is much potential for robots to support older adults in their goal of independent aging. However, for human-robot interactions to be successful, the robots must be designed with user needs in mind.

In the Human Factors and Aging Laboratory, Roger's lab is conducting research in the nascent field of older adult–robot interactions. In this presentation, Rogers will provide an overview of the needs, capabilities, preferences, and limitations of older adults. She will then discuss our current and planned research on the design of robots to support older adults and health care providers. Our focus is on understanding the interactions among user characteristics, robot characteristics, and the context of the interactions (e.g., task demands).

**Presentation 3: Aware Home Technology to Support Aging-in-Place**

Imagine if your home were “aware” of your activities so that it might help you remember what it was you went into the kitchen for or whether the visitor at the front door is someone you know or even what the proper procedure is for performing a recently learned home medical procedure. An aware home is not from the world of science fiction—it is within the realm of science. Such technological developments have the potential to enable older adults to maintain their functional independence and to “age-in-place.” They also have the potential to support families caring for children with developmental disabilities or individuals recovering from illness or injury. An innovative research program at Georgia Institute of Technology is focused on developing psychological and computer science to support home activities.
Meet NAO!
Mealtime Partner Feeder

- Variety of mounts
- Battery operated
- Control amount of food
- Control pause time between spoonful
- Adjustability of the spoon
Google 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
Power Fish’n and Trigger Finger

- Electronic power assist fishing reel
- Attaches to a fishing pole
- One finger push
- Straightens out trigger finger so that an individual can shoot
iZen Garden

- Choose from 100s of objects, plants and creatures to place in your garden
- Rake the sand and share your creations
- Helps you to center your mind, relax your psyche and relieve your stress
Gaming

- FRU
- Yoga inspired
- Problem solving
- 1 or 2 people can play at once
DIY AT

Stress Balls
We used:
- Colorful balloons
- All-purpose flour
- Play Dough

Alternatives:
- Clear or different color balloons
- Sand art sand or course flour

Sensory Bottles
We used:
- Plastic Water Bottles
- Assortment of Glitter
- Tacky Glue

Alternatives:
- Different Types of Water Bottles
- Other types of object
- Thicker solution (ex: glycerin, oil, corn syrup)
- Food Coloring
Reminders

- Built-in App
- Organize your reminders
- Siri
Wearables Forecast

CCS Insight Global Wearables Forecast, 2016-2020

**Volume**
- Fitness, activity & sports trackers: 14 million
- Wearable cameras: 2.2 million
- Virtual & augmented reality headsets: 1.7 million
- Smartwatches & smartphone companions: 61 million

**Value**
- 2016: $14.0 billion
- 2020: $34.2 billion

**Device sales in 2020**
- Eyewear: 97 million
- Wristbands: 164 million
- Tokens, clip-ons & jewellery: 4 million
- Watches: 110 million
- Other: 2 million

February 2016

info@ccsinsight.com / @ccsinsight
Amazon Echo

• 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
MyMedSchedule

• Keep track of medication
• Reminders
• Refill Reminders
• Healthcare Provider Profiles
• Insurance Information
• Allergies
• Works across Platforms
• Free
• www.mymedschedule.com
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
MINDRDR FOR GOOGLE GLASS LETS YOU TAKE AND SHARE PICTURES JUST BY THINKING
Apple Watch

- Receive Calls and texts
  - “Inner Circle”
- Apps
- Can be used for fitness
  - Heart Rate Monitor
  - GPS
  - Accelerometer
- “Hey Siri”
- Haptic feedback
- Calendar
- $499
Our Question to You:
What have You Learned today?
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