Goals for Transition & Beyond:

• Technology tools can help individuals with developmental disabilities achieve greater self-determination and independence.

• Communication and literacy are interconnected and can help individuals to have meaningful interactions in their community.

• Technology can help individuals with developmental disabilities take in information, understand their world, motivate them by giving greater access to their interests.

• Technology can support lifelong learning and employment options.
Pat Satterfield, MCE

AT Consultant/ Trainer
GA Tools for Life/AMAC
Georgia Institute of Technology

President, AT Consultant
Center for AT Excellence
Pat@center4ATExcellence.com

AT Consultant
Coordinator for Self-Determination Project
• Communication
• Literacy
Ben Satterfield, ED.D.

AT Specialist/ Trainer/ Research Consultant
GA Tools for Life/AMAC
Georgia Institute of Technology
Ben@gatfl.org

Assistant Professor
Communication Sciences & Special Education
College of Education, Univ. of Georgia
bsatt@uga.edu

Research Consultant
Center for AT Excellence
Ben@center4ATexcellence.com
Introductions

• Dunamis – an Assistive Technology company before that was a “thing”
  – 1984 – we started with an Apple Ile and a dream that technology might be powerful for those with disabilities….
• 1986 - Home providers for non-verbal young adult with a developmental disability
• 1991 – Parents of a son with Down Syndrome
• Providers of AT evaluations and training for teachers, parents, therapists, individuals
• Technology coordination for a center serving adults with DD
How Do You Use Technology?

- Phone
- Messaging
- Email
- Blogs
- Read and write
- Find information
- Advertise your business
- Search online for things you want
Defining Assistive Technology

Assistive technology – “Any item, piece of equipment, product system, whether acquired commercially, modified, or customized, that is used to increase, maintain, or improve functional capabilities of individuals with disabilities.”

Assistive technology service – “Any service that directly assists an individual with a disability in the selection, acquisition, or use of an assistive technology device.”

Public Law 108-364
Why Assistive Technology?

For a person without a disability, technology makes things easier.

For a person with a disability, technology makes things possible.
AT that is now common....
Moving toward Universal Design

Previously
Add on touch screens
Software for screen reading
Word Prediction software

Now
Touch sensitive technology included
Apps and Extensions
Screen reading included online
Word prediction on your phone
We 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.
TFL is collaborating with GA DBHDD to provide Assistive Technology evaluations and equipment to those who are on our Medicaid Waiver waiting lists.

TFL is supporting the work of the ADRCs in GA by providing AT Tool Kits and training for their staff. Focus is on transitions and aging in place.
Hi Hope Service Center

• Adult Day Program for ~120 individuals with developmental disabilities, ages 22-75
• 5 Residential facilities
• Employment

Strategic Plan includes:
1. Communication
2. Employment First
3. Access to the Community
4. Access to Services via Many Pathways
Hi Hope Service Center, cont’d

- Culture of Communication
  - Sign language, Symbols, Communication device
  - Honor the person’s mode of communication
  - Everywhere, All the Time, with Everyone

- Person-Centered Planning

- Community Connections
Hi Hope Service Center, more

- Employment for Individuals with Significant Disabilities Pilot Project

- Curriculum for when Individuals are not in the Community
  - Literacy
  - Safety and Personal Rights and Responsibilities
  - Health and Wellness
  - Seasonal Topics and Current Events
  - Daily Living Skills
  - Social/Behavior Support
  - Partnership with the local school district for transition planning and the use of our safety and rights curriculum.
What makes a good life?

A young adult with a developmental disability…

• Lives with his family
• Works two days at minimum wage – 10 hours/week
• Works one/two days as a volunteer – 3-6 hours/week
• Church member and volunteer
• Plays softball, basketball, and tennis through Special Olympics
• Member of a community theatre group, acting on stage!
• Dreams – go to college, own a Google car, live independently
Questions for Blake

• What does technology help you to do every day?

• What tools do you use?
  – Kindle, iPad, mini
  – Chromebook/gmail
  – Phone
  – ECHO
Family Challenges

- Friends
- Government Red Tape
- Transportation!
- Health
- Working on cooking, shopping, money
<table>
<thead>
<tr>
<th>Individual Outcomes</th>
<th>Health, Safety, Rights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Inclusion</td>
<td>Safety</td>
</tr>
<tr>
<td>Work</td>
<td>Health</td>
</tr>
<tr>
<td>Relationships</td>
<td>Medications</td>
</tr>
<tr>
<td>Satisfaction</td>
<td>Wellness</td>
</tr>
<tr>
<td>Choice and Decision-Making</td>
<td>Restraints</td>
</tr>
<tr>
<td>Self-Determination</td>
<td>Respect/Rights</td>
</tr>
</tbody>
</table>
Different Supports for Different Folks

- KK, 46, Significant Intellectual Disability
  - Non-verbal, but uses some sign language
- KE, 21, High IQ, in college
  - Uses Eye Gaze Technology with Comm Device
  - Uses a motorized wheelchair
- JG, 24, Autism
  - Can speak but usually does not, reads, moves constantly
- ER, 32, Hearing Impairment and Mild Intellectual Disability
  - Uses sign, symbols, and iPad for Communication
- AN, 60, Moderate Intellectual Disability
  - Uses a wheelchair, speech is limited
Technology and Transitions: Planning Ahead

- Communication
- Activities of Daily Living
- Cognitive Support
- Literacy
- Lifelong Learning
- Employment
- Organization
- Community Connections
Communication is Foundational

Low Tech Wallets and Notebooks

GoTalk

Big Mack Step-by-Step

Proloque2Go

NovaChat
Continuum of Communication Tools

**Low Tech**
- Pictures and Symbols
- Communication boards, wallets, rings etc.

**Mid Tech**
- Single Message
- Sequenced Messages
- Direct Selection Devices

**High Tech**
- Dynamic Display
- Icon Sequencing
- Tablet with Apps

NovaChat
Apps for Communication

• Proloque2Go
• Sonocent (Lite)
• TouchChat
• Avaz
• Autismate
Using Core Words

<table>
<thead>
<tr>
<th>I</th>
<th>it</th>
<th>who</th>
<th>what</th>
<th>when</th>
<th>again</th>
<th>now</th>
<th>that</th>
<th>this</th>
<th>trouble</th>
</tr>
</thead>
<tbody>
<tr>
<td>me-mayself</td>
<td>my - mine</td>
<td>not</td>
<td>come</td>
<td>do-does-did</td>
<td>ready</td>
<td>how</td>
<td>finished</td>
<td>all gone</td>
<td>bad</td>
</tr>
<tr>
<td>you - your</td>
<td>drink</td>
<td>eat</td>
<td>get</td>
<td>give</td>
<td>go</td>
<td>where</td>
<td>big</td>
<td>different</td>
<td>good</td>
</tr>
<tr>
<td>hear / listen</td>
<td>help</td>
<td>like</td>
<td>look / see</td>
<td>make</td>
<td>put</td>
<td>away</td>
<td>happy</td>
<td>little</td>
<td>more</td>
</tr>
<tr>
<td>say / tell</td>
<td>stop</td>
<td>take</td>
<td>turn</td>
<td>want</td>
<td>here</td>
<td>there</td>
<td>sad</td>
<td>sick</td>
<td>silly</td>
</tr>
</tbody>
</table>

[Image of communication symbols]
Activities of Daily Living

- **FitBit**
- **OneTouch**
- **ShakeNWake**

**MyShopi app**
Cognitive Support

Helping to Build Independence for:

- Individuals with Intellectual and Developmental Disabilities
- Individuals with Traumatic Brain Injury
- Individuals experiencing problems with memory
- Individuals learning a new task

Functions of Cognitive Support

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

Environments that may require Cognitive Support

- Academics
- Computer Use
- Community Inclusion
- Community Living
  - Leisure
  - Employment
  - Communication
- Self-regulation
- Mobility
- Environmental Control
Low Tech Cognitive Support: for grocery store clerk with DD

Good

Reduce Price

Remove
Cognitive Prompting

Visual Impact

Choiceworks

Autismate

Clarity Phone
 Phonemic Awareness and Phonics

- HearBuilder or Earobics – computer activity that will help to increase listening skills, sound discrimination, auditory memory, following directions.
- Simon Sounds It Out
- Classroom Suite – created in collaboration with Florida Center for Reading Research and includes phonemic awareness and phonics activities
Phonemic Awareness and Phonics, cont’d

Apps:
• Reading Raven
• Interactive Alphabet
• Word Wizard
• Simplex Spelling Phonics – Rhyming With CVC Words
• ABC Shakedown
• Hooked on Phonics
• Starfall
• Phonics Genius

(http://www.teacherswithapps.com/best-phonics-apps/)

Word Magic
Sight Word Instruction

For **most** students - High Frequency Words
For **some** students - Word Families, Sight Words, Picture-supported Text

Low Tech: Boardmaker word families activities
http://www.sightwordsgame.com/

Software: Edmark, Sentence Master, PixWriter
Apps: Sight Word Adventure, Sight Words List, Sight Words, Learn Sight Words, Sight Words by Little Speller

(http://rachelktutoring.com/blog/free-sight-________word-apps/)
Vocabulary Instruction

Low Tech: Graphic Organizers, charts with visuals, flashcards with visuals

Mid Tech: Handheld Dictionary, Reading Pen

High Tech: Electronic Dictionary – in Advanced Reading Aid
Online Dictionary and Thesaurus
Apps: Vocabulary Builder, Action Words, Bluster!, Word Games for Kids - Futaba
Supported Reading

Screen Readers
KNFB reader on a handheld device
Programs that can change Lexile Level (Rewordify, Snap and Read, News ELA)
Advanced Reading Aids that have dictionary Translation
Study Skills built-in
Start to Finish
Many Ways to Write

• Low Tech:
  Pencil Grips, Alternative Writing Instruments, Different Types of Papers, Slant Board, Using Symbols or Whole Words to Retell a Story

• Mid Tech:
  Portable Word Processor, iPad or other Tablet, Alternate Keyboards, Brailler
The Writing Process

Talking Word Processor, Talking Spell Checker, Word Lists, Word Prediction, Voice Recognition (Speech to Text), Grammar Check

Dragon or built-in Voice Recognition, Write:OutLoud, Classroom Suite, Clicker 7, PixWriter, First Author, Kurzweil 3000, TextHelp Read and Write Gold, Co:Writer Universal, WordQ, Grammarly

Clicker 7  Pixwriter  Ginger
Writing

- Evo Pen
- IntelliKeys
- CoWriter
- Big Keys
- Slant Board
Math: Adapted Math Tools

- Mathline
- Pouring Cup
- Talking Tape
- Measure
- Talking Measuring Cup
- Crayola Audio Ruler
- Coin-u-lator
- MoneyCalc

Mathline

Coin-U-lator

Talking Tools
Employment

- Sit to Stand Desk
- Vertical Mouse
- Watch with Alarms
- JAWS

5-Point Scale (Anxiety)

<table>
<thead>
<tr>
<th>Feels Like</th>
<th>What I can do</th>
</tr>
</thead>
<tbody>
<tr>
<td>I'm going to breakdown (cry, begin pacing and bang my head.)</td>
<td>I can leave the room with permission and go to home base.</td>
</tr>
<tr>
<td>My stomach is starting to hurt and I'm having difficulty concentrating.</td>
<td>I can ask to talk privately to an adult. I can listen to my iPod with calming music (headphones).</td>
</tr>
<tr>
<td>I'm feeling uneasy and I'm starting to sweat.</td>
<td>I can refer to my coping cards and use deep breathing.</td>
</tr>
<tr>
<td>I feel ok. I can handle the situation.</td>
<td>Self-talk and reassure myself that I can do it!</td>
</tr>
<tr>
<td>I feel great. No problem!</td>
<td></td>
</tr>
</tbody>
</table>
Organization

Morning Group

The day is:
Monday  Tuesday  Wednesday  Thursday  Friday

The month is:
January  February  March  April  May  June  July  August  September  October  November  December

AudioNote
Notepad and Voice Recorder

"The BEST note-taking app in the App Store."

Boardmaker organizer

Color coding
Connected In the Community

Wayfinder

Google Glasses

Amazon ECHO

Kubi Telepresence
Constant Innovation

Voice Stick for the Visually Impaired

Augmented Reality

Milo
Funding Options

- Alternative Funding Programs
  - Credit-Able
- Reuse
  - www.passitoncenter.org
  - Durable Medical Equipment
  - FODAC
- ABLE Act
  - Savings accounts for major purchases
Guiding Principles

• We, collectively, are brilliant and can find innovative paths and create brighter futures.

• We must think, live, and act from a place of abundance. We do have enough time, money and resources.

• We must focus on abilities.
How could technology help the individuals you serve?
Keep the Conversation Going

Pat Satterfield, MCE
President, Center for AT Excellence
AT Consultant/ Trainer
Pat@c4atx.com

Ben Satterfield, Ed.D.
Research Consultant & AT Consultant
Ben@c4atx.com

Disclaimer
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