Enhancing Quality of Life with Person-Centered Cognitive Technologies

Daniel K. Davies
Founder and President

AbleLink
Smart Living Technologies
Smart Living Technologies

Cognitively Accessible Technologies Used Directly by Individuals with IDD At Home, School, Work and in the Community for Smart Living
AbleLink’s Cognitive Technology Research and Development

Developing Innovative Technologies for those with Cognitive Needs

- AbleLink Founded in 1997
- Conducted over 85 Research Projects Focused on Technology for:
  - Intellectual and Developmental Disabilities
  - Traumatic Brain Injury
  - Seniors Experiencing Cognitive Decline
- Funding Organizations have included:

[Logos and icons for different organizations]
Smart Living Technologies Meet Needs Across Spectrum of Life

- Accessible Surveys for Promoting Self-Expression with ATLAS
- Visual & Audio Task and Personal Scheduling Support with Smart Living Service (Mobile)
- Personal GPS for Enabling Independent Bus Travel with Smart Travel Service
- Access to the Web and the World with Smart Living Service (Home)

"Having My Voice Heard"
"Accessing My Community"
"Knowing When and How to …"
"Accessing My Everyday Technologies"
Smart Living Technologies Meet **Needs** Across Spectrum of Life

- Accessible Surveys for Promoting Self-Expression with ATLAS

**“Having My Voice Heard”**

**“Accessing My Community”**

**“Knowing When and How to ...”**

**“Accessing My Everyday Technologies”**
ATLAS: Cognitively Accessible Tests and Surveys

Self-directed, survey tools, such as consumer satisfaction surveys, using multi-modal presentation and accessible design can increase independence and reduce staff time interviewing and entering/ aggregating data.
ATLAS Reports: Cloud-based Data Collection and Reporting

AbleLink Technologies

VantagePoint Reports Home

The following is a list of VantagePoint surveys that were taken for AbleLink Technologies. To show the entire list for a specific survey, click on the **name of the survey**. To download a comma-separated (CSV) file of all the surveys, click on the **Download Data** link. To view the survey reports, click on either the **Overall Results** or **Perception Report** buttons.

<table>
<thead>
<tr>
<th>Survey Name</th>
<th>Last Survey Taken</th>
<th>Total Surveys</th>
<th>Aggregate Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td>My Views About Accessing My Community ✡</td>
<td>01/06/16 - 09:31 AM</td>
<td>8 (Download Data)</td>
<td>Overall Results</td>
</tr>
<tr>
<td>My Views About My Work ✡</td>
<td>01/04/16 - 08:36 PM</td>
<td>5 (Download Data)</td>
<td>Overall Results</td>
</tr>
<tr>
<td>My Views About My Home ✡</td>
<td>01/04/16 - 08:34 PM</td>
<td>7 (Download Data)</td>
<td>Overall Results</td>
</tr>
<tr>
<td>My Views About My Day Program ✡</td>
<td>01/04/16 - 05:52 PM</td>
<td>6 (Download Data)</td>
<td>Overall Results</td>
</tr>
</tbody>
</table>
My Views About My Home - Overall Results

2. Who got to choose where you live?

- Someone else chose where I live (28%)
- I chose where I live (42%)
- I am not sure (14%)
- I chose where I live with some with help from others (14%)
ATLAS Reports: Cloud-based Data Collection and Reporting

AbleLink Technologies

My Views About My Home - Overall Results

4. Are you happy with where you live?

- Yes (71%)
- Sometimes (14%)
- No (14%)
ATLAS Reports: **Cloud-based Data Collection and Reporting**

**AbleLink Technologies**

**My Views About My Home - Perception of Satisfaction and Service**

**Overall Score: 88%**

**Respondent:** Sample Home Survey  
**Completed:** 01/11/16 - 10:36 AM  
**ID:** 20160111034376

<table>
<thead>
<tr>
<th>Perspective I. Satisfaction with Life Activity and Environments</th>
</tr>
</thead>
<tbody>
<tr>
<td>This perspective focuses on a broad cross section of factors that can impact happiness and overall satisfaction with the home living environment, including general activities, room or house mates, staff supports, safety, privacy, nutrition and freedom of choice.</td>
</tr>
</tbody>
</table>
| **Score:** 86%  
| **38/44 Points** |

<table>
<thead>
<tr>
<th>Perspective II. Interpersonal and Social Connectedness</th>
</tr>
</thead>
<tbody>
<tr>
<td>This perspective includes survey questions that relate specifically to interpersonal relationships with housemates, friends and neighbors, as well as social interactions with residential support staff. Questions affecting this Perspective relate to whether the individual feels respected and treated well by the individuals they come in contact with on a regular basis in the residential environment.</td>
</tr>
</tbody>
</table>
| **Score:** 92%  
| **12/13 Points** |

<table>
<thead>
<tr>
<th>Perspective III. Staff Involvement and Quality of Services Provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>This perspective specifically focuses on supports that are provided to individuals in residential settings from agency staff, staff interactions and perceived responsiveness of staff, help provided by staff towards achieving personal goals, perceptions of control in relation to staff, and freedom to communicate with staff regarding problems or concerns.</td>
</tr>
</tbody>
</table>
| **Score:** 86%  
| **24/28 Points** |
ATLAS: Cognitively Accessible Tests and Surveys

ATLAS Travel Readiness Assessments

AbleLink JobQuest

AbleLink VantagePoint

ATLAS Custom Survey
Smart Living Technologies Meet **Needs** Across Spectrum of Life

- **“Having My Voice Heard”**
- **“Accessing My Community”**
- **“Knowing When and How to …”**
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**Personal GPS for Enabling Independent Bus Travel with Smart Travel Service**
Smart Travel Service for Community Access

**WayFinder Ecosystem:** A suite of transportation support technologies, including assessment, training and day-of-travel support tools for enabling independent transportation for individuals with cognitive disabilities and others with special needs.
WayFinder Supports Transition to Fixed Route System

Less Paratransit/ Agency Travel

More Fixed Route
Using WayFinder to Travel Independently
Travel Instructions Provided along the Way

“Your stop is next. It’s time to pull the cord to tell the driver to stop”
Person-Centered Picture, Audio, Text and Vibration Prompts Guide the Traveler Through each Step of the Trip
User Initiated Contacts and Automated Real-Time Location Updates Provide Peace of Mind to Family and Caregivers
WayFinder Implementation Projects Across US

- Albuquerque
- Chattanooga
- Clarksville
- Columbus
- Detroit
- Indianapolis
- Pittsburgh
WayFinder Featured in:
Smart Living Technologies Meet **Needs** Across Spectrum of Life

- **“Knowing When and How to …”**
- **“Accessing My Everyday Technologies”**
- **“Having My Voice Heard”**
- **“Accessing My Community”**

- Visual & Audio Task and Personal Scheduling Support with **Smart Living Service (Mobile)**

“Having My Voice Heard”

“Accessing My Community”

“Accessing My Everyday Technologies”

“Knowing When and How to …”
Smart Living Service

AbleLink Endeavor: Audio and Visual Schedules
AbleLink Endeavor: Audio and Visual Schedules

Activities for July 02, 2014

- Go Home
  02:45 PM
- Do Your Homework
  03:30 PM
- Feed your Dog
  04:00 PM
- Take Your Medicine
  07:45 PM
- Brush Your Teeth
  10:45 PM
- Time for Bed
  11:00 PM

Scheduled Items Today: 6

TO DO ITEMS: 3 items
AbleLink Endeavor

- Picture and audio reminders for your day
AbleLink Endeavor

– Integrates with WayFinder to Launch Routes
Smart Living Service

AbleLink Visual Impact:
Self-Directed Task Prompting/Video Modeling
AbleLink Visual Impact

Tasks can be downloaded from a cloud-library or created locally for the individual.
AbleLink Visual Impact

Personalized step-by-step instructions for daily tasks
AbleLink Visual Impact

Personalized step-by-step instructions for daily tasks
Seamless Integration Across Apps
Agency Learning Library: Cloud-based Sharing of Tasks

AbleLink Technologies Learning Library

1 - Daily Living
2 - Employment
3 - Community Skills
4 - Health and Wellness
5 - Education
6 - Recreation
7 - Miscellaneous
8 - Non-English Tasks

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Trinity supports people with disabilities to live more full and abundant lives.

Supported Employment
Helping individuals with disabilities identify their strengths
Self-Coaching on the Job

Supportive Employment Program
Enabling Technologies Meet Needs Across Spectrum of Life

“Having My Voice Heard”
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- Access to the Web and the World with Smart Living Service (Home)
Smart Living Desktop Suite
Cognitively Accessible Operating System
Email, Web Surfing, Media Playing
Smart Living Desktop: Person-Centered Computer Access Driven by Personal Interests and Needs
Interface Customizability: Accessibility Settings Applied to Each User
Welcome to Merakey!

Merakey is a leading provider of education and human services to individuals with special needs.

ABOUT MERAKEY

Merakey is a leading developmental, behavioral health, and education non-profit provider offering a breadth of integrated services to individuals and communities across the country. We leverage our size and expertise to develop innovative solutions and new models of care to meet the needs of individuals, their families, public and private healthcare funders and community partner organizations. We recognize that complex needs require a holistic approach. With our experience, expertise and compassion, we empower everyone within our communities to reach their fullest potential. Read more...

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BRANDON CLICKS ON HIS PICTURE
Concern for man himself and his fate must always constitute the chief objective of all technological endeavors... in order that the creations of our minds shall be a blessing and not a curse to mankind.

Albert Einstein

Science & Happiness

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