

Enhancing Quality of Life with Person-Centered Cognitive Technologies

Daniel K. Davies
Founder and President



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:



Smart Living Technologies Meet **Needs** Across Spectrum of Life



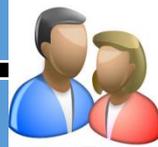
- Accessible Surveys for Promoting Self-Expression with **ATLAS**



- Personal GPS for Enabling Independent Bus Travel with **Smart Travel Service**

“Having My Voice Heard”

“Accessing My Community”



“Knowing When and How to ...”

“Accessing My Everyday Technologies”



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

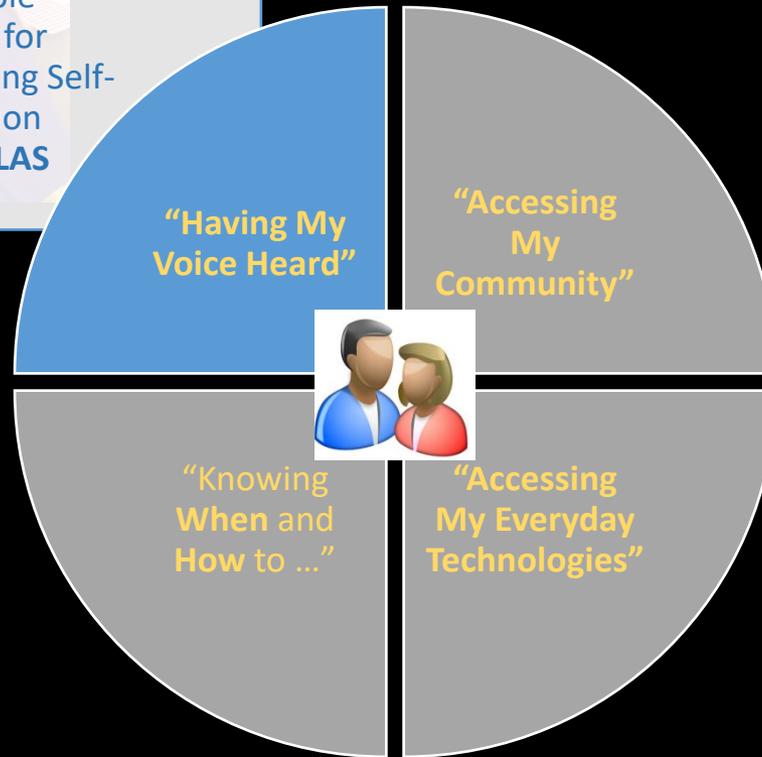


- Access to the Web and the World with **Smart Living Service (Home)**

Smart Living Technologies Meet **Needs** Across Spectrum of Life



- Accessible Surveys for Promoting Self-Expression with **ATLAS**



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.

My Views About my Home

Do you get to get out in the community enough for activities?



 Yes

 No

 I am not sure

 **Back**  Replay **Next** 



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.

Survey Name	Last Survey Taken	Total Surveys	Aggregate Reports	
My Views About Accessing My Community ➔	01/06/16 - 09:31 AM	8 (Download Data)	Overall Results	Perception Report
My Views About My Work ➔	01/04/16 - 08:36 PM	5 (Download Data)	Overall Results	Perception Report
My Views About My Home ➔	01/04/16 - 08:34 PM	7 (Download Data)	Overall Results	Perception Report
My Views About My Day Program ➔	01/04/16 - 05:52 PM	6 (Download Data)	Overall Results	Perception Report

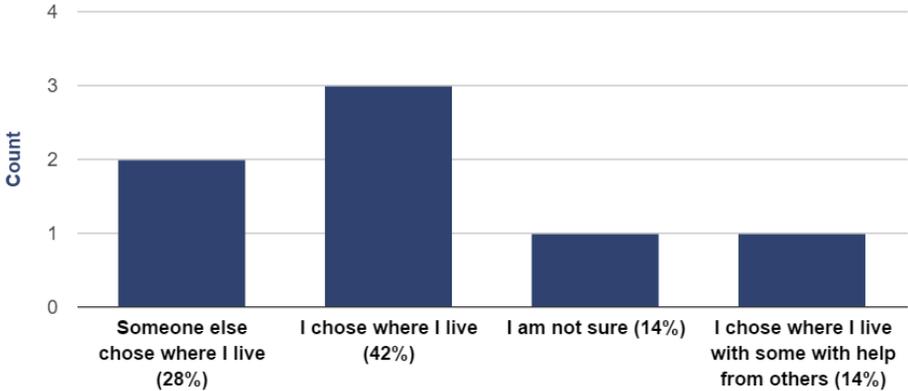
ATLAS Reports: Cloud-based Data Collection and Reporting

AbleLink Technologies

My Views About My Home - Overall Results ⊗

[← Previous](#) [Next →](#)

2. Who got to choose where you live?



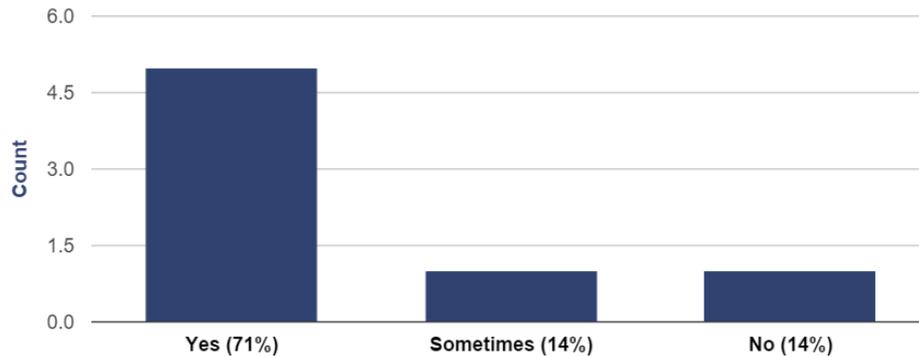
ATLAS Reports: Cloud-based Data Collection and Reporting

AbleLink Technologies

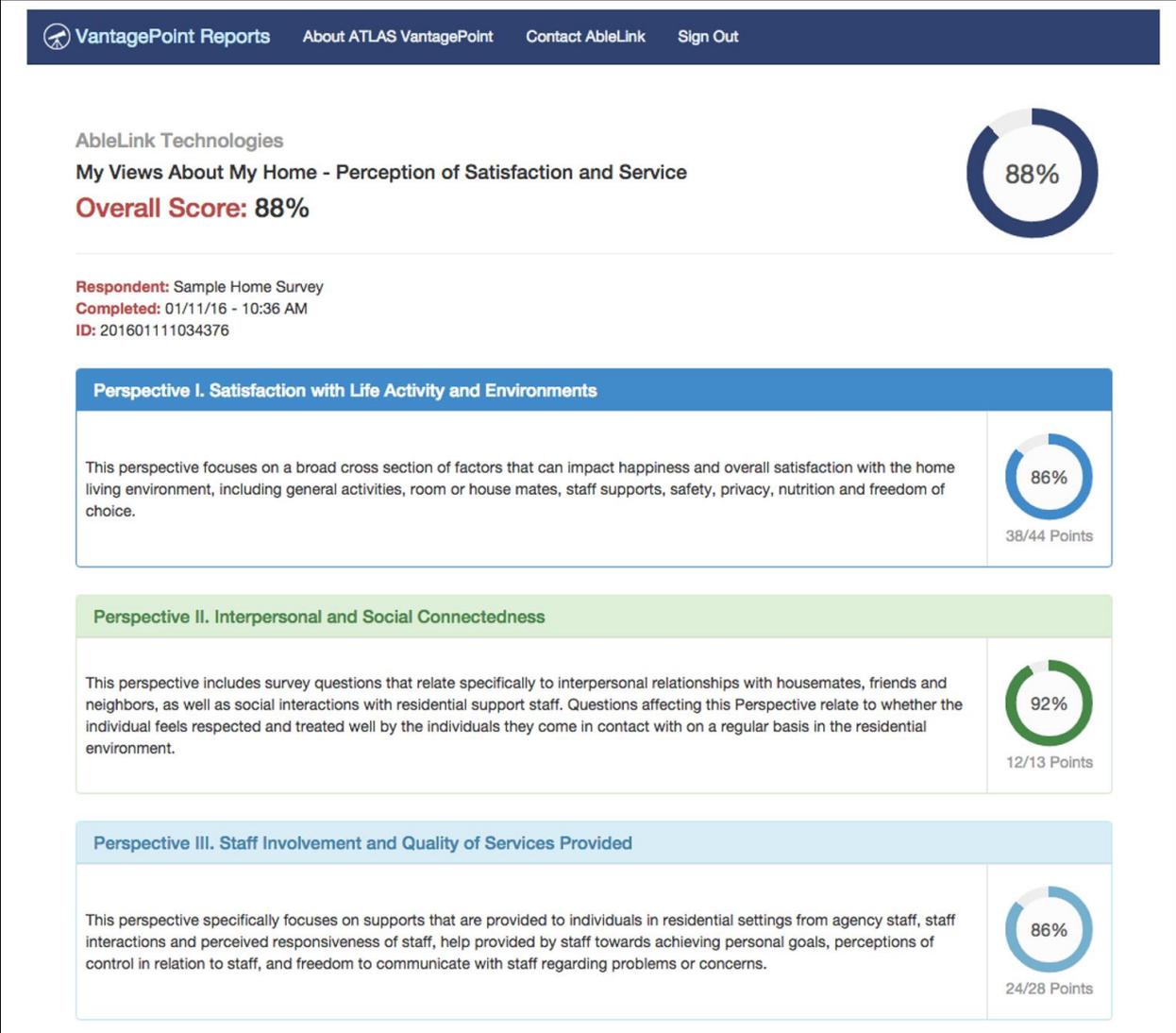
My Views About My Home - Overall Results ⊗

[← Previous](#) [Next →](#)

4. Are you happy with where you live?



ATLAS Reports: Cloud-based Data Collection and Reporting



ATLAS: Cognitively Accessible Tests and Surveys

ATLAS Travel Readiness Assessments



AbleLink JobQuest



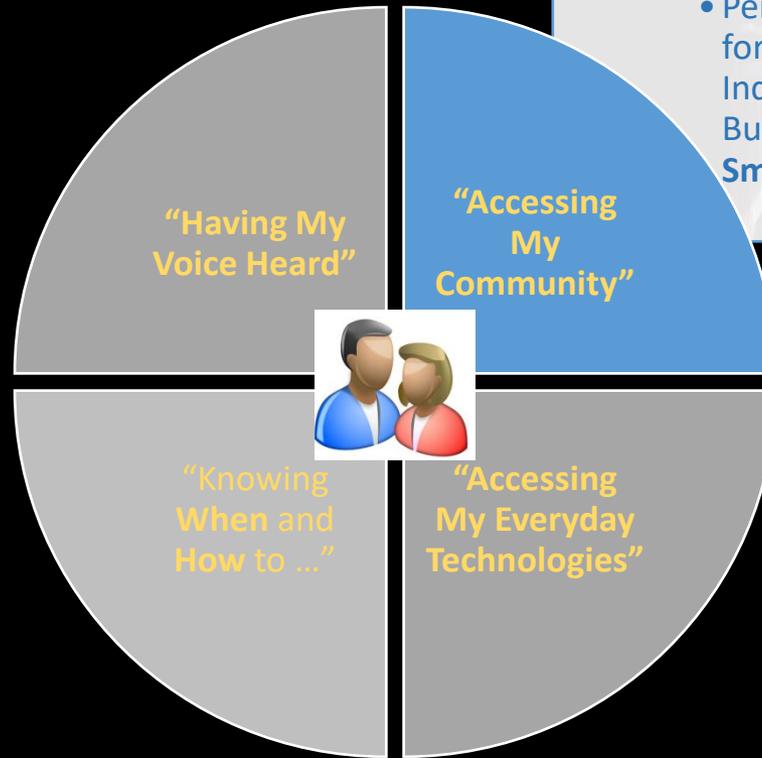
AbleLink VantagePoint



ATLAS Custom Survey



Smart Living Technologies Meet **Needs** Across Spectrum of Life

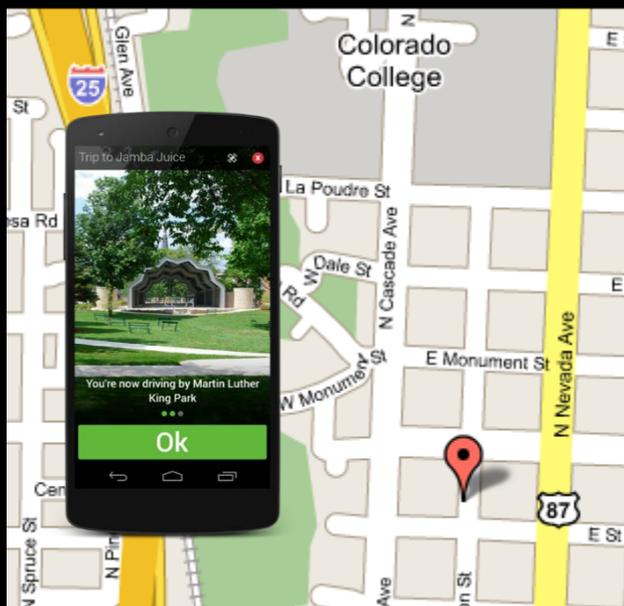


- Personal GPS for Enabling Independent Bus Travel with Smart Travel Service



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

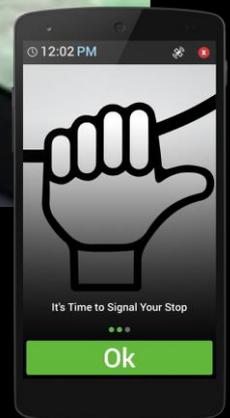


Using WayFinder to Travel Independently

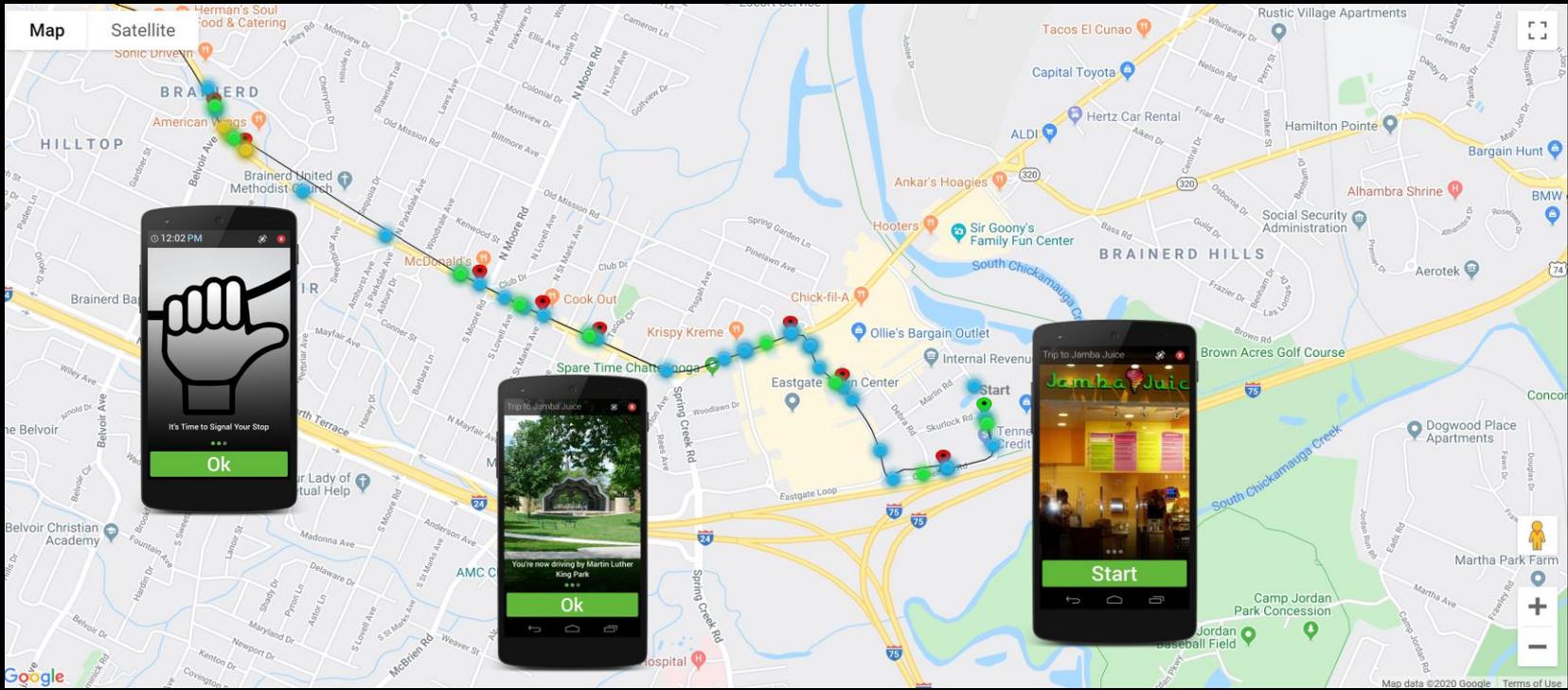


Travel Instructions Provided along the Way

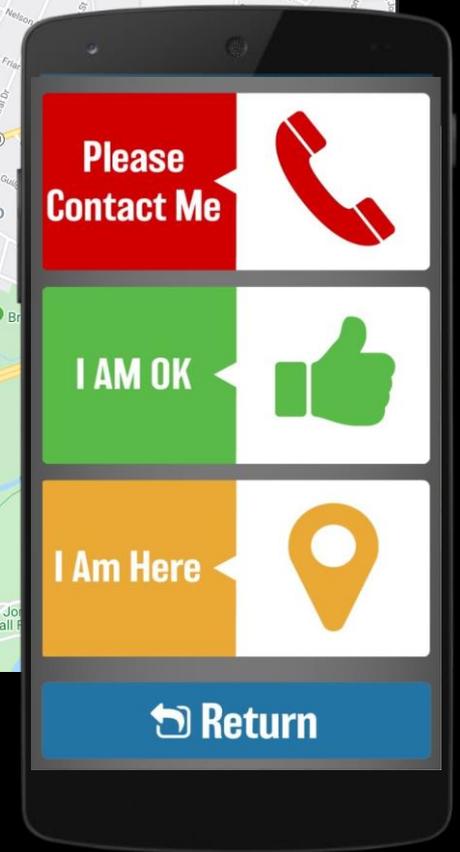
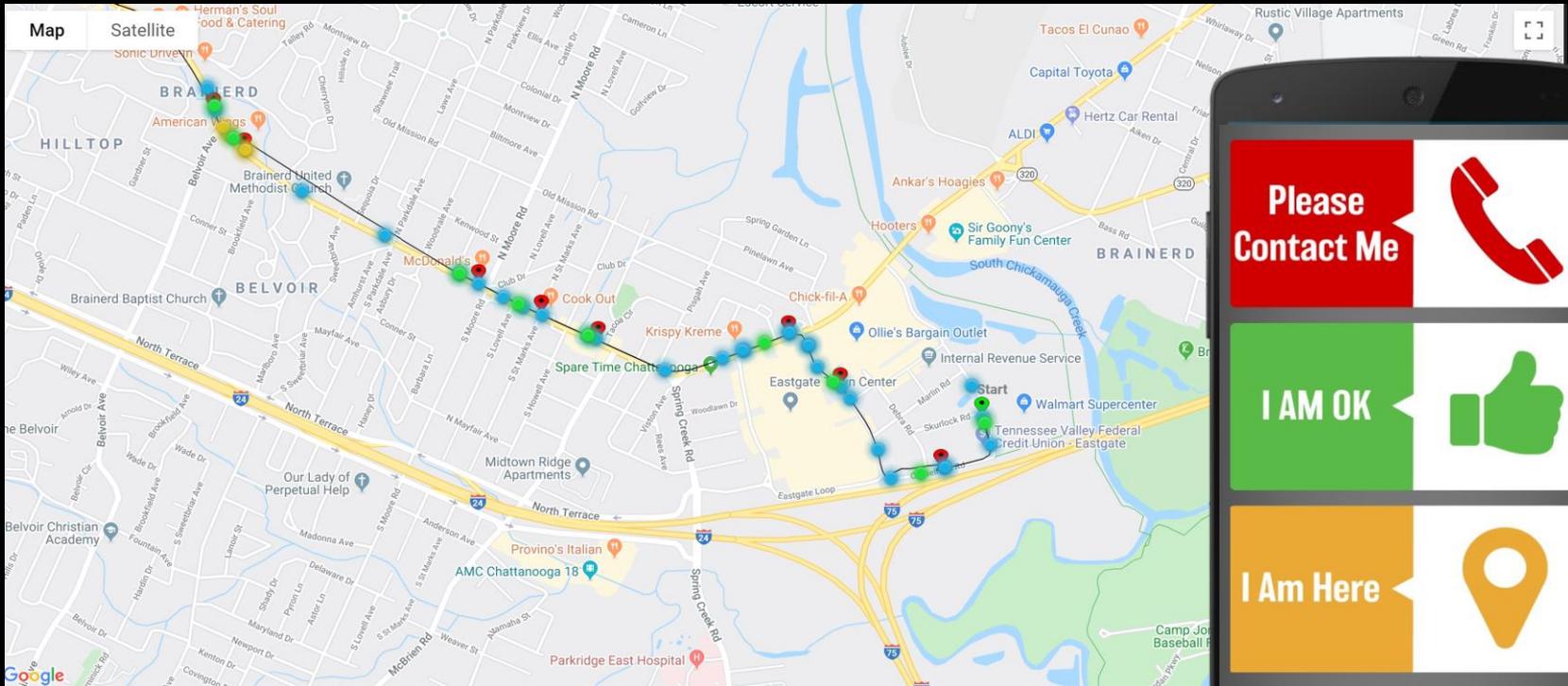
“ Your stop is next. It’s time to pull the cord to tell the driver to stop”



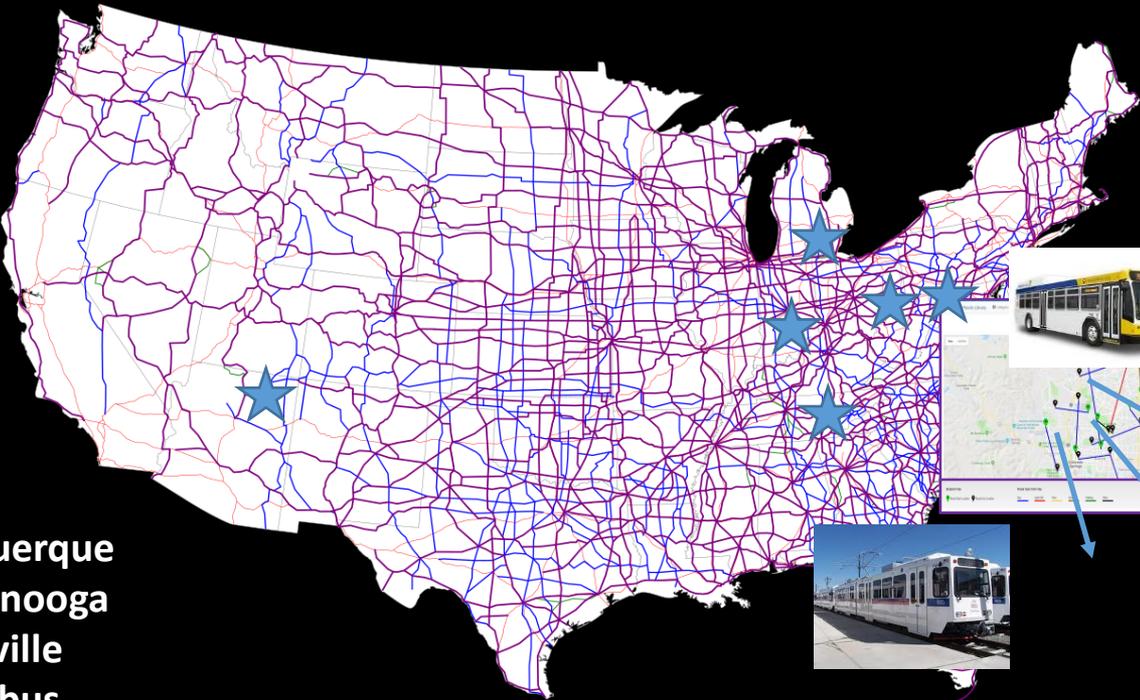
Person-Centered Picture, Audio, Text and Vibration Prompts Guide the Traveler Through each Step of the Trip



User Initiated Contacts and Automated Real-Time Location Updates Provide Peace of Mind to Family and Caregivers



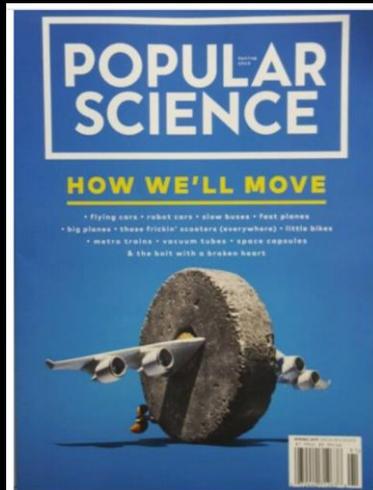
WayFinder Implementation Projects Across US



- Albuquerque
- Chattanooga
- Clarksville
- Columbus
- Detroit
- Indianapolis
- Pittsburgh



WayFinder Featured in:

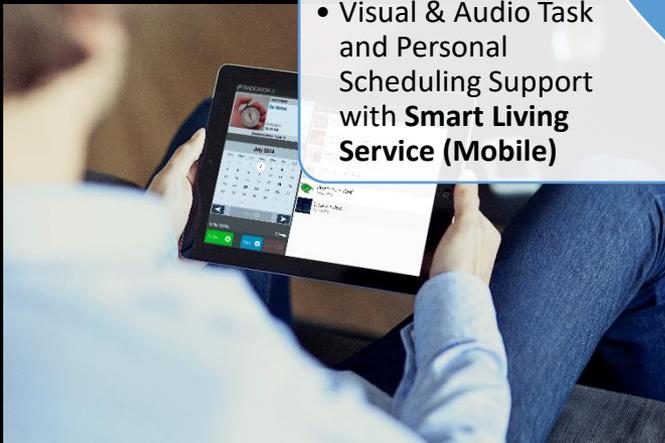


**SM
RT**
COLUMBUS

Smart Living Technologies Meet **Needs** Across Spectrum of Life



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



Smart Living Service

AbleLink Endeavor : Audio and Visual Schedules

ENDEAVOR 3 07/02/2014 02:17 PM

NEXT EVENT
Go Home
07/02/2014
02:45 PM
Scheduled Items Today: 6

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

July 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

TO DO ITEMS: 3 items

To Do Add Delete

10/13/2015 04:47 PM

NEXT EVENT
Feed Regis
10/13/2015
05:45 PM

Schedule for 10/13/2015

- Feed Regis October 13, 2015 05:45 PM
- Time for Dinner October 13, 2015 06:00 PM
- Brush Your Teeth October 13, 2015 10:00 PM
- Call Mom - Wish Her Good Night October 13, 2015 10:15 PM
- Time for Bed October 13, 2015 10:30 PM

TO DO ITEMS: 3 items

To Do Add Delete

AbleLink Endeavor : Audio and Visual Schedules

ENDEAVOR 3 07/02/2014 02 17 PM i

NEXT EVENT



Go Home

07/02/2014
02:45 PM



Scheduled Items Today: 6

Activities for July 02, 2014 X +

-  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

July 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
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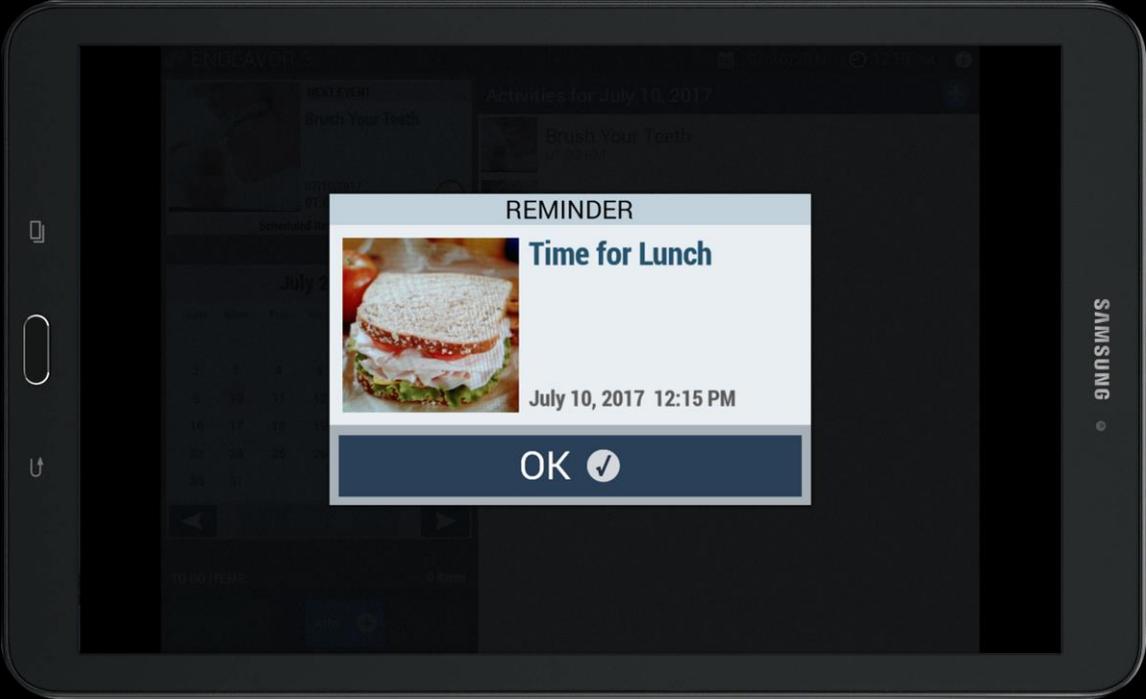
Today ✓

TO DO ITEMS: 3 items

To Do  Add + Delete X

AbleLink Endeavor

- Picture and audio reminders for your day



AbleLink Endeavor

– Integrates with WayFinder to Launch Routes

The screenshot displays the ENDEAVOR 3 mobile application interface. At the top, it shows the date 07/02/2014 and time 02:17 PM. The main screen is divided into several sections:

- Next Event:** A "Trip Checklist" event scheduled for 07/02/2014 at 02:45 PM. It includes a backpack icon and a clock icon. Below this, it states "Scheduled Items Today: 6".
- Calendar:** A calendar for July 2014. The current date, July 2nd, is highlighted. The calendar shows days of the week (Sun to Sat) and dates from 29 to 9.
- Activities for July 02, 2014:** A list of activities for the current day:
 - Trip Checklist (with backpack icon)
 - Time to Catch Bus for Work (with bus icon)
 - Feed your Dog (with dog icon) at 04:00 PM
 - Take Your Medicine (with pills icon) at 07:45 PM
 - Brush Your Teeth (with toothbrush icon) at 10:45 PM
 - Time for Bed (with night sky icon) at 11:00 PM
- TO DO ITEMS:** A section at the bottom left with 3 items. It includes buttons for "To Do", "Add", and "Delete".

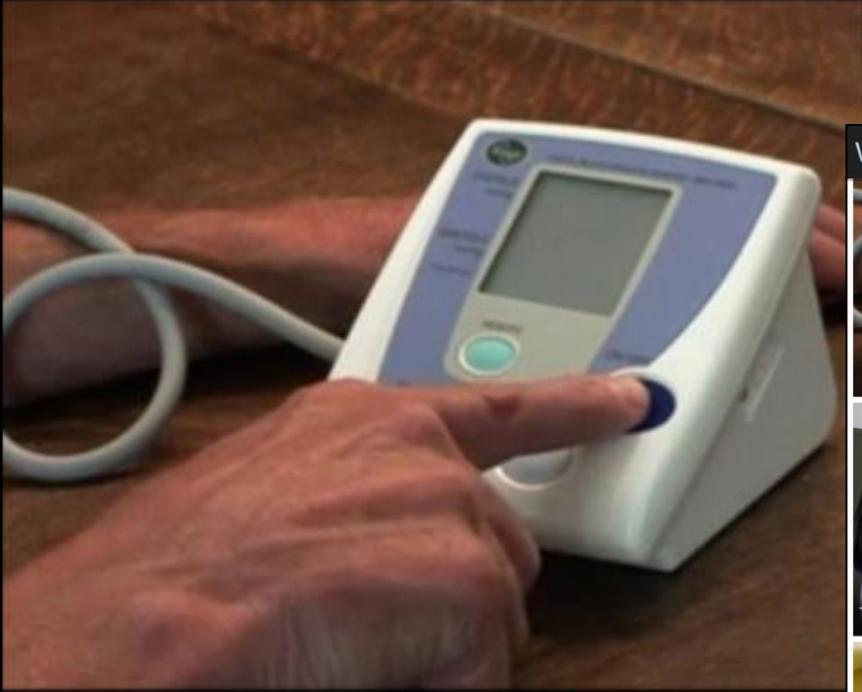
On the right side, a smartphone displays a navigation alert from WayFinder. The alert reads: "Trip to Jamba Juice", "You're now driving by Martin Luther King Park", and features a large green "Ok" button.

Smart Living Service

AbleLink Visual Impact:

Self-Directed Task Prompting/ Video Modeling

Take Your Blood Pressure



STOP START

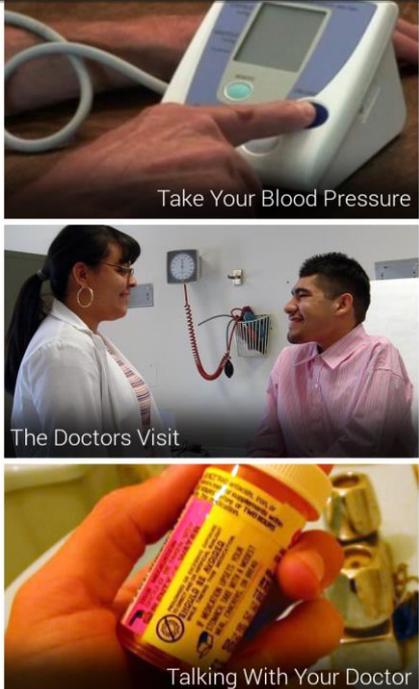
This interface shows a video prompt for taking blood pressure. It features a large video window with a hand using a blood pressure monitor. At the top left is a back arrow icon and the text 'Take Your Blood Pressure'. At the bottom left is a red 'STOP' button, and at the bottom right is a green 'START' button.

VISUAL IMPACT 3

Take Your Blood Pressure

The Doctors Visit

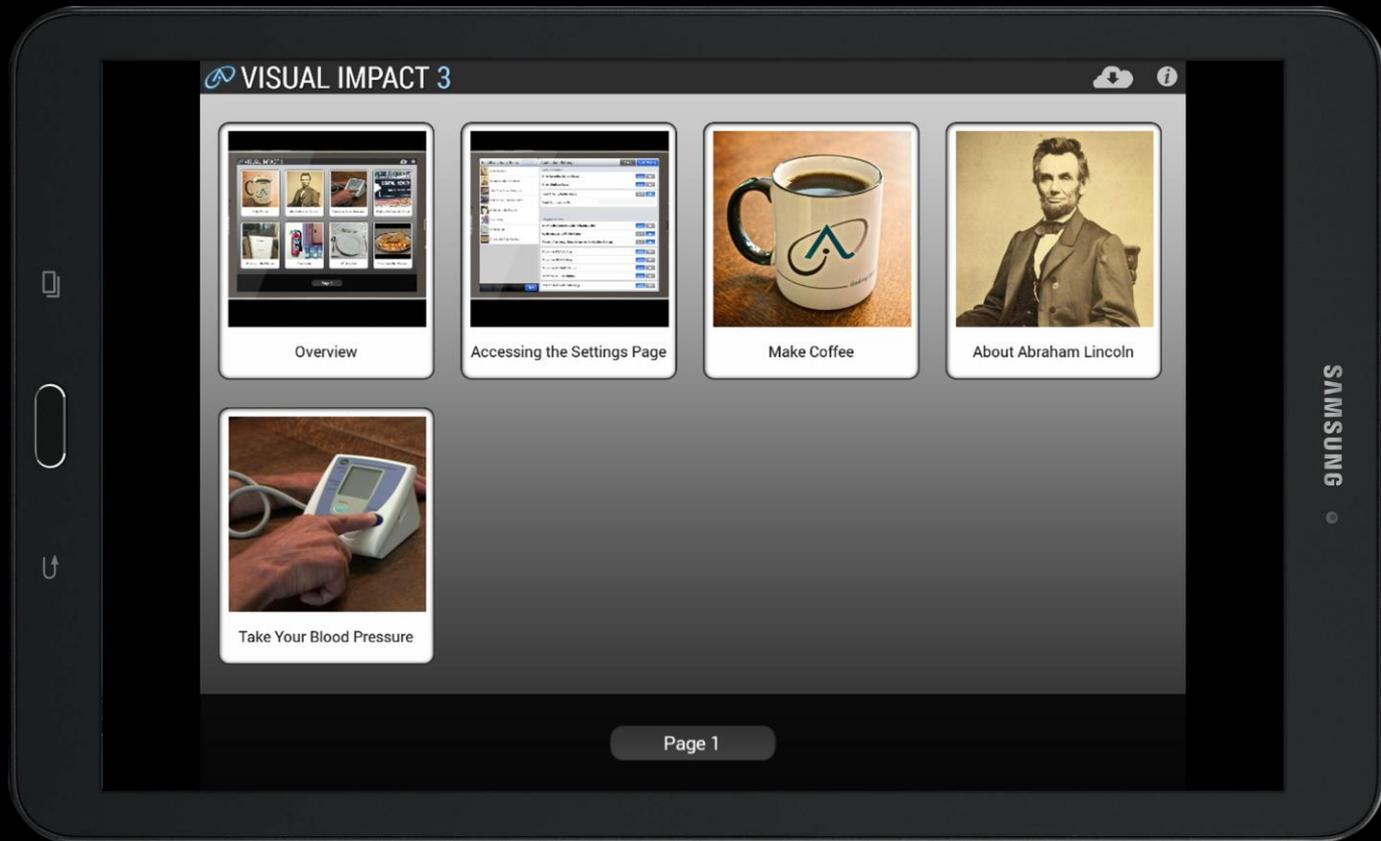
Talking With Your Doctor



This panel displays three video thumbnails under the heading 'VISUAL IMPACT 3'. The top thumbnail shows a hand using a blood pressure monitor with the caption 'Take Your Blood Pressure'. The middle thumbnail shows a doctor and a patient in a consultation with the caption 'The Doctors Visit'. The bottom thumbnail shows a hand holding a pill bottle with the caption 'Talking With Your Doctor'. The top of the panel includes icons for a cloud, settings, and information.

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

ENDEAVOR 3

NEXT EVENT

 Trip Checklist

07/02/2014
02:45 PM

Scheduled Items Today: 6

July 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Today

TO DO ITEMS: 3 items

To Do Add Delete

Activities for July 02, 2014

 Trip Checklist

 Time to Catch Bus for Work

 Feed your Dog
04:00 PM

 Take
07:45

 Brus
10:45

 Time
11:00

VISUAL IMPACT 3

Pre-Trip Checklist: Trip to Work

-  Put food in the cat dish
-  Get Your Backpack Together
-  Get Your Bus Pass
-  Close the Windows

HOW TO

 Trip Checklist

Start

 Get Your Backpack Ready

Back Next

Agency Learning Library: Cloud-based Sharing of Tasks

Learning Library

Category Actions

Unapproved Tasks

About

Account

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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Supported Employment

Helping individuals with disabilities identify their strengths

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

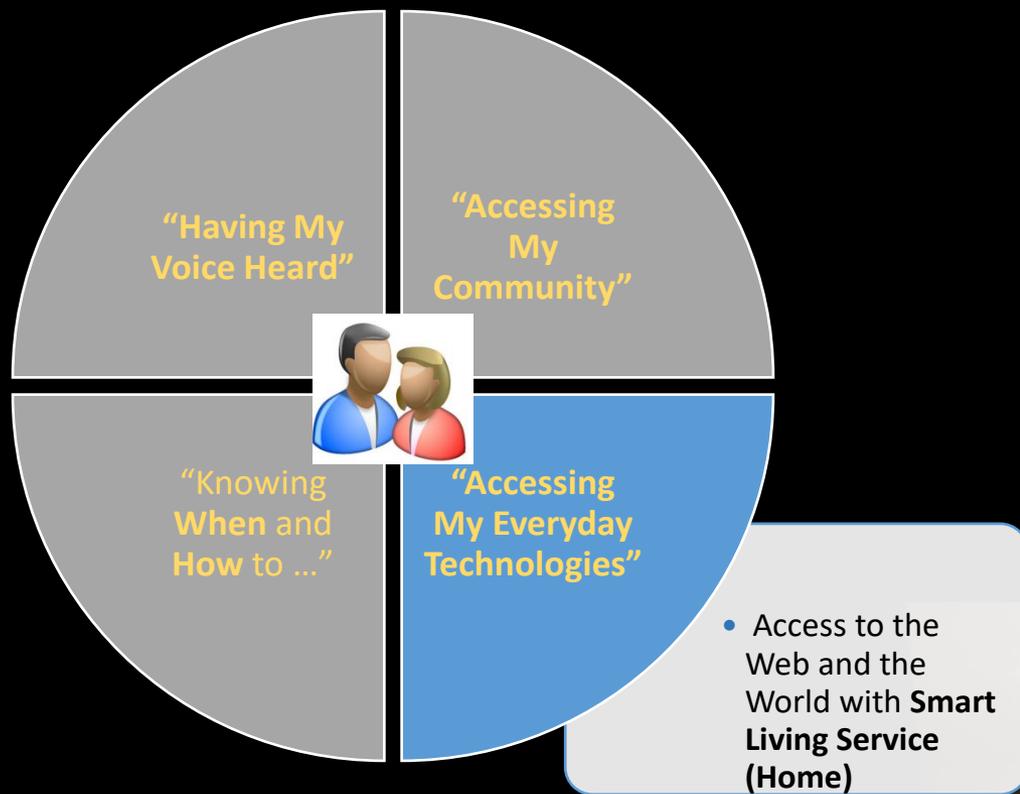
[Learn how you can make a difference](#)

Self-Coaching on the Job



Supportive Employment Program

Enabling Technologies Meet **Needs** Across Spectrum of Life



Smart Living Desktop Suite

Cognitively Accessible Operating System

Email, Web Surfing, Media Playing

Smart Living Desktop

Tuesday, April 25, 2017

Indy's Personal Desktop

08:39 AM

Smart Living Desktop Suite
by AbleLink SL Technologies

 Email	 Newsfeed Button	 Feeding the Rabbit	 You Tube
 Music Button	 Web Trek Browser Button	 Ocean Webcam	 News

Timer OFF

Smart Living Desktop Suite by AbleLink SL Technologies

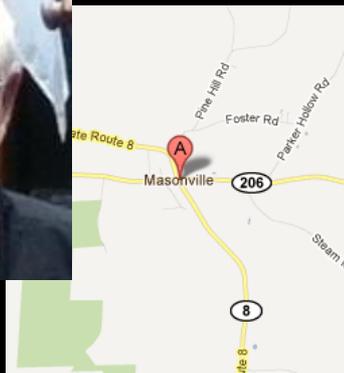
Smart Living Desktop: Person-Centered Computer Access Driven by Personal Interests and Needs



Smart Living Desktop
Jonathan's Personal Desktop
Tuesday, April 25, 2017 09:16 AM

My Email Call My Friends Caring for Rita Water the Flowers

Winter at Graceland



Smart Living Desktop
Roger's Personal Desktop
Tuesday, April 25, 2017 08:49 AM

My Email Google Gideon Smart Living Magnifier Quick Action

Movie Night Newsfeed Button Fox News Taking Care of Shasta Patriots

CNN Sharks Red Sox News Taking My Medications

Categories: AbleLink, My Pictures, My Music, My Talker, Sports, Finances, Task Buttons, Windows Apps

Timer OFF

Interface Customizability: Accessibility Settings Applied to Each User



Recording Email

MESSAGE TO: Cindy

SUBJECT: Message from Rusty at 10:00 AM

Caring for Rita

Now Recording Your Message

CANCEL DONE

A screenshot of an email recording interface. It shows a message header for Cindy, a subject line, and a recording progress bar. There are 'CANCEL' and 'DONE' buttons at the bottom.

Caring for Rita

START

A screenshot of a video player showing a golden retriever. A green 'START' button is overlaid at the bottom.

1313

PAUSE STOP

A screenshot of a video player showing a man in a dark jacket. There are 'PAUSE' and 'STOP' buttons at the bottom.

TO: mydoctor@healthplace.com

SUBJECT: Feeling Much Better!

Hi Dr. King,

I am sleeping much better now. those new meds you gave me are making the difference. No more late nice infomercials :)

Thanks again, Roger

A screenshot of an email interface. The subject is 'Feeling Much Better!'. The body contains a message to 'Dr. King' about medication and infomercials.

Step 3

BACK

A screenshot of a video player showing hands pouring pills into a pill organizer. A 'BACK' button is overlaid at the bottom.

Fiddler on the Roof

10:26 -2:50:42

A screenshot of a video player showing the title 'Fiddler on the Roof' with a silhouette of a man on a roof. A playback control bar is at the bottom.



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...](#)

PARTNERS IN CARING >



CURRENT NEWS & EVENTS >

- [Hanna's Artwork](#)
- [Merakey Students Sporting New Aprons and Polos](#)
- [Kevin Volunteers for the Humane Society](#)
- [Celebrating Employees in Philadelphia's Behavioral Health](#)

UPCOMING EVENTS >

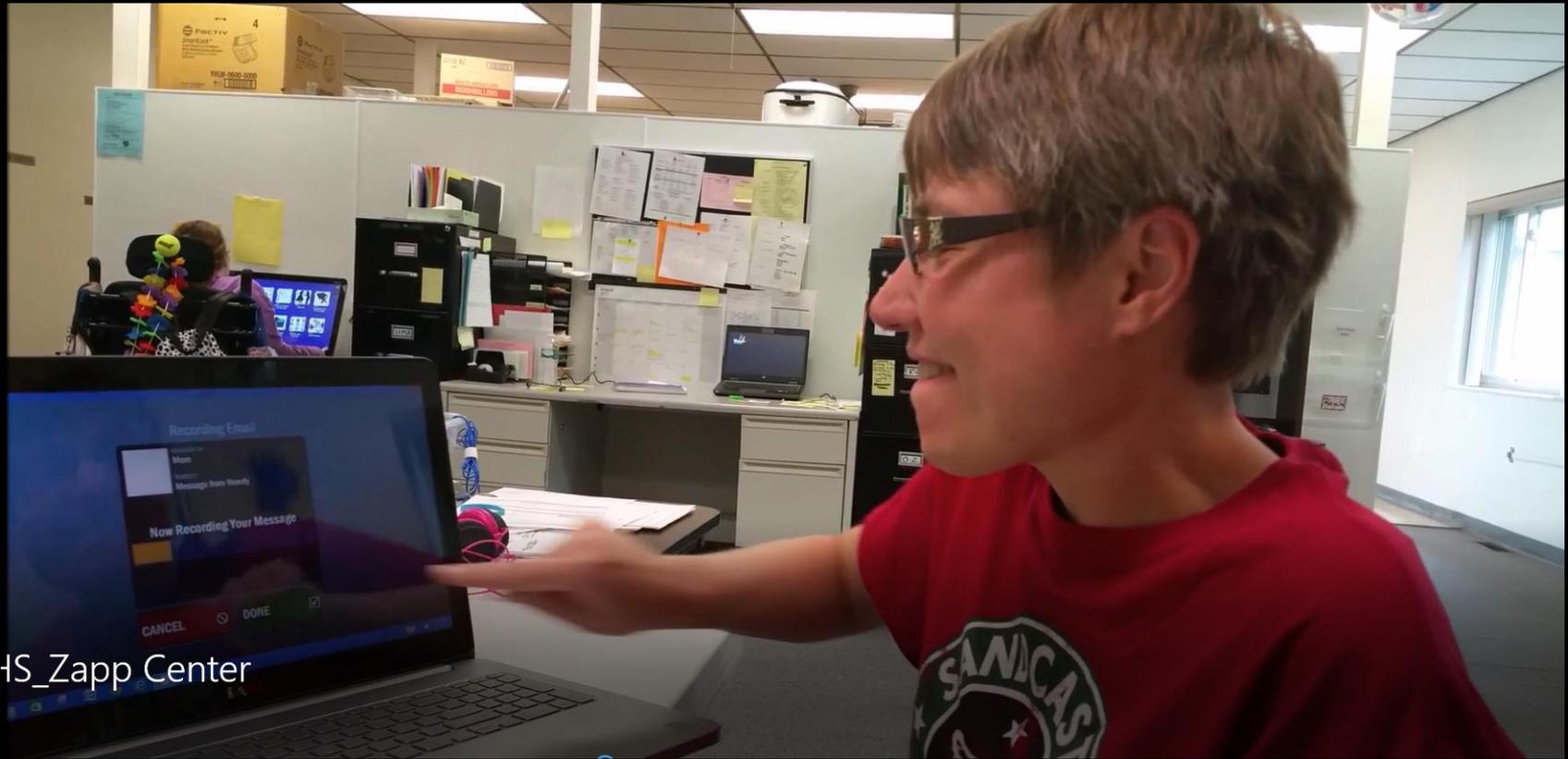




NHS_Zapp Center

BRANDON CLICKS ON HIS PICTURE

0:02:29



IS_Zapp Center



NHS_Zapp Center

0:06:04

0:04:00

When? Why? How? WHERE? WHEN? What? HOW? Why? WHAT? When? Why? HOW? WHEN? WHERE? When? Why? WHO? WHERE? WHEN? What? WHERE? WHEN? What? WHERE? When? What? WHERE? When? Why? HOW? Where? WHERE? When? What? HOW? What? WHERE? When? What? WHERE? When? Why? WHEN? WHERE? HOW? What? WHY? Why?

Q&A



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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