

DEPARTMENT of HEALTH and HUMAN SERVICES

FY 2016 Annual Report to Congress on the Assistive Technology Act of 1998, as Amended

Prepared by

ADMINISTRATION FOR COMMUNITY LIVING



THIS PAGE LEFT INTENTIONALLY BLANK.

.....

TABLE OF CONTENTS

Executive Summary	
Introduction	5
Assistive Technology Act History	5
The Assistive Technology Act of 1998, As Amended	6
State-Level Activities	6
State Leadership Activities	6
State-Level Activities	7
Device Demonstration Programs	7
Device Loan Programs	
Device Reutilization Programs	9
State Financing	10
State Financing - Cash Loan Programs	
Other State Financing Programs that Provide AT	
Other State Financing Programs that Reduce the Cost of AT	10
State Activities Performance Measures	11
Acquisition Performance	
Access Performance	
State Leadership Activities	12
Training	
Public Awareness	
Information and Assistance	
Technical Assistance	
Conclusion	12
Resource Information	14

LIST OF TABLES

Table 1. Number of Device Demonstrations by Device Type	7
Table 2. Number of Individuals Who Participated in Device Demonstrations	7
Table 3. Number of Devices Borrowed by Type of Borrower	8
Table 4. Devices Loaned by Type	8
Table 5. Device Reutilization Summary by Device Type	9
Table 6. Number of Recipients, Devices, and Savings by Type of Reutilization Activity	9
Table 7. Types and Dollar Amounts of AT Acquired with Financial Loans	10
Table 8. Percentage of Agencies that Received Technical Assistance	12

LIST OF FIGURES

Figure 1. Total Savings to Recipients, Device Reuse Trends: 2014-2016	9
Figure 2. Consumer Rating of Services	11
Figure 3. Why Consumers Obtained a Device from the State AT Program	11
Figure 4. Kinds of Consumer Decisions the State AT Program Enabled	11

EXECUTIVE SUMMARY

Section 4 of the *Assistive Technology Act of 1998*, as amended (*AT Act*) authorizes grants to support programs that increase knowledge about, access to and acquisition of assistive technology (AT) devices and services for individuals with disabilities and older Americans. These programs include fifty-six statewide AT programs that provide device demonstrations, device loans, device reutilization, training, technical assistance, public awareness, and assistance with obtaining funding for AT. Statewide AT programs are required by law to collect data on their activities and provide annual progress reports to ACL. This report is a compilation of data from these programs. It is preceded by an introduction to the purpose of the document and a history of the *AT Act* and is followed by resource information containing contacts and data on each state AT program.

The report describes state-level and state leadership activities for FY 2016:

How individuals were served by the following activities:

» Device Demonstration Programs

Nearly 73,000 individuals participated in device demonstrations;

- » Device Loan Programs
 Over 54,000 AT devices loaned on a short-term basis to individuals with disabilities, service providers and agencies;
- » Device Reutilization Programs Consumers saved \$32 million on nearly 80,000 gently used devices; and
- » State Financing
 88 percent of recipients indicated an AT device could not be obtained without the assistance of the state financing activity.

Performance goals for Statewide AT Programs:

- » Consumer Satisfaction Ratings of State-Level Activities; and
- » State Activities Performance Measures.

How individuals and organizations benefited from:

» Training

Over 117,000 participants in AT training;

» Information and Assistance

Family members, guardians or authorized representatives represented the largest group of over 445,000 recipients of information and referral; and

» Technical Assistance
Education and community living agencies receiption

Education and community living agencies received a majority of Technical Assistance provided by State Grant for AT programs.

ADMINISTRATION FOR COMMUNITY LIVING FY 2016 Annual Report to Congress on the Assistive Technology Act of 1998, as Amended

INTRODUCTION

The Assistive Technology Act of 1998, as Amended by Public Law 108-364 (AT Act of 1998, as Amended, will be referenced in this report as the AT Act or Act) requires that the Secretary of Health and Human Services submit to Congress a report on the activities funded under the AT Act. Specifically, the Secretary of Health and Human Services is required to provide annually to Congress: 1) A compilation and summary of the information provided by the state Section 4 grantees in annual progress reports to the Department of Health and Human Services; and 2) a summary of the state Section 4 State Plan applications and an analysis of the progress of the states in meeting the measurable goals established in state applications under Sec. 4(d)(3) of the AT Act. This document serves as the Report to Congress for Fiscal Year (FY) 2016.

This report summarizes data from the fifty-six Section 4 formula funded state AT program grantees, including all 50 states of the United States, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa and the Commonwealth of the Northern Mariana Islands. The term, AT Program, is used to describe all fifty-six Section 4 grantees.

ASSISTIVE TECHNOLOGY ACT HISTORY

In 1988, Congress passed the Technology-Related Assistance for Individuals with Disabilities Act (P.L. 100-407) (Tech Act) to assist states with identifying and responding to the assistive technology (AT) needs of individuals with disabilities. Competitive grants awarded under the Tech Act were used by states to create systemic changes that improved the availability of assistive technology devices and services. States were provided with flexibility in the design of their programs, and this flexibility continued when the Tech Act was reauthorized in 1994 (P.L. 103 218).

The Tech Act was reauthorized again in 1998 as the Assistive Technology Act of 1998 (P.L. 105-394; AT Act of 1998). The AT Act of 1998 required states to conduct capacity-building activities that increased the availability of funding for, access to, and provision of AT devices and services and allowed states to conduct other discretionary activities as well. Title III of the AT Act of 1998 authorized the Alternative Financing Program (AFP) to help individuals with disabilities and their families fund the purchase of AT devices or services.

The AT Act of 1998 was amended in 2004 by P. L. 108-364 (AT Act). The amendments significantly changed the preceding legislation. Rather than focusing the efforts of states on systems-change activities, the AT Act requires

states to conduct activities that directly provide individuals with disabilities and others with support to access and acquire AT. The program was changed from a competitive discretionary grant program to a formula state grant program with Section 4 providing formula grants to state AT programs and Section 5 providing formula grants to protection and advocacy AT programs. As mandated by the 2004 amendments, the U.S. Department of Education, Rehabilitation Services Administration (RSA), assumed responsibility for administering programs under the Act as of December 2004. Previously, the Department of Education's National Institute on Disability and Rehabilitation Research (NIDRR) administered the Act.

In 2014, the Workforce Innovation and Opportunity Act (WIOA) transferred administration of the AT Act to the Department of Health and Human Services, Administration for Community Living (ACL). This data report provides a national summary of Section 4 grantee statewide AT program activities and outcomes for FY 2016.

What is Assistive Technology (AT) ?

AT is any item, piece of equipment, or system, whether acquired commercially, modified, or customized, that is commonly used to increase, maintain, or improve functional capabilities of individuals with disabilities.

(Source: AT Act of 1998 as amended, 29 USC §3002)

THE ASSISTIVE TECHNOLOGY ACT OF 1998, AS AMENDED

Section 4 of the AT Act authorizes the formula-based State Grant for AT Program and requires a common set of activities to be provided by all AT programs (with some limited exceptions explained below) to create consistency among grantees. With these grant funds, states develop and maintain statewide AT programs that conduct "state-level" activities and "state leadership" activities. Any funds appropriated above the FY 2004 level (which constitutes the base year amount) are allocated according to a formula that provides a portion of the funds equally to all states and a portion of funds based on the population of a state. The Center for Assistive Technology Act Data Assistance (CATADA) provides a table with FY 2016 funding levels for all fifty-six grantees along with other activity data¹.

STATE-LEVEL ACTIVITIES

State-level activities include the following:

- State financing activities, which can be:
 - » Systems for the purchase, lease or other acquisition of or payment for AT devices and services (though states may not directly pay for AT devices and services for individuals with disabilities); or
 - » Alternative financing systems, such as low-interest loan funds, interest buydown programs, revolving loan funds, loan guarantees or insurance programs or other mechanisms for the provision of AT devices.²
- Device reutilization programs that support the exchange, repair, recycling or other reutilization of AT devices;
- **Device loan programs** that provide short-term loans of AT so that individuals can try out devices or fill a temporary need for a device; and
- Device demonstration programs in which personnel familiar with AT demonstrate a variety of devices and services and provide information about AT vendors, providers and repair services.

STATE LEADERSHIP ACTIVITIES

State leadership activities include:

6

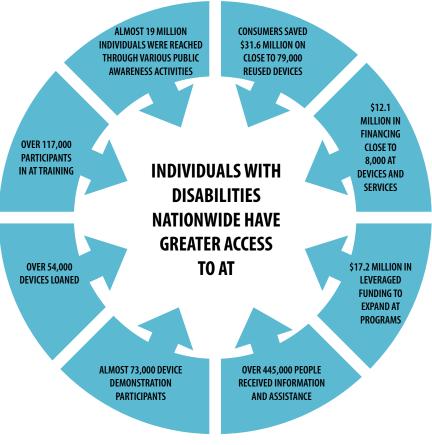
- Training and technical assistance, which includes developing and disseminating training materials, conducting training, and providing technical assistance to enhance the AT knowledge, skills and competencies of individuals³;
- Public awareness activities designed to provide information on the availability, benefits, appropriateness and costs of AT devices and services, including a statewide information and referral system; and
- Coordination and collaboration of activities among public and private entities responsible for policies, procedures or funding for the provision of AT devices and services.

All state level and major state leadership activities are described in greater detail later in this report.

Section 4(e)(1)(B) of the AT Act allows states to opt out of funding a state-level activity if that activity is supported comparably with non-federal funds ("comparability" provision). Sec. 4(e)(6) of the Act provides states with the "flexibility" to carry out only two or three of the state-level activities. States that carry out all four state-level activities may use a maximum of 40 percent of their federal funds for state leadership activities. States that carry out two or three state-level activities may use a maximum of 30 percent of their funds for state leadership activities.

The AT Act includes specific data collection requirements for state-level and state leadership activities, state improvement outcomes, leveraged funding, performance measure outcomes and consumer satisfaction. A data collection instrument developed to collect the Sec. 4(f) required data elements was approved by the Office of Management and Budget (OMB) through 10/31/2017 and was used by all grantees to report FY 2016 annual progress report data summarized in this Report to Congress.

AT PROGRAM ACHIEVEMENTS RESULTING IN POSITIVE OUTCOMES FOR INDIVIDUALS WITH DISABILITIES



¹ www.catada.info

- ² While they possess some similarities, "alternative financing systems," as included under Section 4 state financing activities, need not be the same as those formerly funded under Title III of the AT Act of 1998, which contains many specific statutory requirements.
- ³ States are required to spend five percent of their state leadership funds specifically to provide ATrelated training and technical assistance to assist students with disabilities who are getting ready to move from school to adult life, including employment, post-secondary education, or independent living and adults who need AT assistance to maintain or transition to community living.

STATE-LEVEL ACTIVITIES

DEVICE DEMONSTRATION PROGRAMS

Device demonstrations compare the features and benefits of a particular AT device or category of devices for an individual or small group of individuals (U.S. Department of Education [ED], 2011). Device demonstrations allow individuals and groups to make informed choices about an AT device prior to acquiring it. Along with providing demonstrations, AT Programs are required to provide comprehensive information about state and local assistive technology vendors, providers, and repair services.

During the FY 2016 reporting period, fifty-five AT Programs conducted device demonstrations as part of their state-level activities. State AT Programs classify device demonstration into 10 categories. Daily living was the largest demonstration category, comprising 19 percent of all demonstrations. Six additional device categories comprised between 10 percent and 17 percent of all demonstrations (see Table 1). Since FY 2015, there has been a 9.5 percent increase in the number of devices demonstrated.

TABLE 1: NUMBER OF DEVICE DEMONSTRATIONS BY DEVICE TYPE

Type of AT Device	Number of Demos	Percent
Daily living	9,044	19%
Mobility, seating	8,194	17%
Speech communication	6,438	13%
Computers and related	5,738	12%
Vision	5,346	11%
Learning, cognition	4,588	10%
Hearing	4,653	10%
Recreation, sports, and leisure	1,730	4%
Environmental adaptations	1,622	3%
Vehicle modification and transportation	570	1%
TOTAL	47,923	100%

Source: U.S. Department of Health and Human Services, Administration for Community Living, Center for Assistive Technology Act Data Assistance - National Assistive Technology Act Data System, State Grants for AT Program annual progress report aggregate data for FY 2016. Last accessed April 2017.

As illustrated in Table 2, individuals with disabilities (45 percent) comprised almost half of those participating in device demonstrations in FY 2016, followed by family members, guardians, and authorized representatives (24 percent). There was a 9.4 percent increase in the number of individuals who participated in device demonstrations since FY 2015.

TABLE 2: NUMBER OF INDIVIDUALS WHO PARTICIPATED IN DEVICE DEMONSTRATIONS

Type of Individual	Number of Participants	Percent		
Individuals with disabilities	32,565	45%		
Family members, guardians, and authorized representatives	17,735	24%		
Representatives of education	8,946	12%		
Representatives of health, allied health, and rehabilitation	7,535	10%		
Representatives of community living	3,162	4%		
Representatives of employment	1,611	2%		
Representatives of technology	1,254	2%		
TOTAL	72,808	100%		

Source: U.S. Department of Health and Human Services, Administration for Community Living, Center for Assistive Technology Act Data Assistance National Assistive Technology Act Data System, State Grants for AT Program annual progress report aggregate data for FY 2016. Last accessed April 2017.

For AT Program purposes, education is defined as participating in any type of educational program. Community living includes carrying out daily activities, participating in community activities, using community services, or living independently. Employment means finding or keeping a job, getting a better job, or participating in an employment training program, vocational rehabilitation program, or other program related to employment. Lastly, information technology/telecommunications is defined as using computers, software, websites, telephones, office equipment, and media.

Individuals who participated in device demonstrations were surveyed by AT Programs about the main purpose of the AT device for which they attended the demonstration. In FY 2016, community living was listed as the most common purpose (70 percent), followed by education (20 percent) and employment (10 percent).

Device Demonstration Anecdotes PROGRESS THROUGH ASSISTIVE DEVICES

K is a 3-year-old boy with a huge personality! His mother reached out to the Oklahoma AT Program for support as this youngster with physical and vision disabilities prepared to transition to preschool. One of the Oklahoma AT Program partners created a sensory table and a braille board to demonstrate doit-yourself assistive devices that could be used in the home and later at school. K made gains in strength and endurance in his ability to stand while playing at the sensory table. He also increased his attention span and made improvements in pre-literacy skills with the braille board.

A VISION OF BETTER TECHNOLOGY

Rebecca, who is in her mid-60s, contacted the Arizona Assistive Technology (AT) Program because of problems with her vision. During a device demonstration, she tried several different video magnifiers, including handheld and desktop models. She practiced using the devices with the activities with which she needed assistance, like reading her mail, reading her favorite magazine, and being able to read food labels at the grocery store.

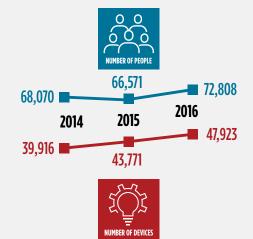
Once Rebecca decided on a model to purchase, the AT specialist referred her to local vendors, and later helped her complete an application for a financial loan from the Arizona cash loan program. With the AT, Rebecca is able to continue to lead an independent life without relying on others for daily tasks and community engagement.

Return on Investment

72,808 individuals participated in 47,923

device demonstrations conducted by state AT Programs, and were assisted in making informed decisions. Of these demonstrations, 89% resulted in participants determining a device would meet their needs supporting a "good" investment to acquire the device, while another 5% determined a device would NOT meet their needs preventing a "bad" investment. 6% responded as undecided or did not respond.

DEVICE DEMONSTRATION TRENDS: 2014–2016



STATE-LEVEL ACTIVITIES

DEVICE LOAN PROGRAMS

Device loan programs allow AT consumers and professionals who provide services to individuals with disabilities to borrow AT devices for use at home, at school, at work, and in the community. The purpose of a device loan may be to assist in decision-making, to fill a gap while the consumer is waiting for device repair or funding, to provide a short-term accommodation, to facilitate or support self-education by a consumer or professional or to provide other training (ED, 2011).

.....

During FY 2016, fifty-five AT Programs reported providing 39,970 short-term loans of AT devices to individuals or entities. Individuals with disabilities were the largest group to whom devices were loaned (37 percent), followed by family members, guardians, and authorized representatives (21 percent). Please refer to Table 3 for a more detailed breakdown. Since FY 2015, there was a 10 percent increase in the number of individuals or entities who borrowed an AT device.

TABLE 3: NUMBER OF DEVICES BORROWED BY TYPE OF BORROWER

Type of Borrower	Number of Device Borrowers	Percent
Individuals with disabilities	14,763	37%
Family members, guardians, and authorized representatives	8,226	21%
Representatives of education	7,317	18%
Representatives of health, allied health, and rehabilitation	5,683	14%
Representatives of community living	2,206	5%
Representatives of technology	1,066	3%
Representatives of employment	709	2%
TOTAL	39,970	100%

Source: U.S. Department of Health and Human Services, Administration for Community Living, Center for Assistive Technology Act Data Assistance – National Assistive Technology Act Data System, State Grants for AT Program annual progress report aggregate data for FY 2016. Last accessed April 2017.

Devices for speech communication (16 percent) were the most common types of AT devices loaned in FY 2016, followed by computers and related devices (16 percent), and devices for daily living (16 percent). Seven additional device categories accounted for the remaining 52 percent of the device loans made (Table 4). There was an 11.6 percent increase in the number of devices loaned since FY 2015.

TABLE 4: DEVICES LOANED BY TYPE

Type of AT Device	Number Loaned	Percent
Speech communication	8,838	16%
Computers and related	8,554	16%
Daily living	8,442	16%
Learning, cognition	7,812	14%
Mobility, seating	7,452	14%
Vision	4,234	8%
Environmental adaptations	3,840	7%
Hearing	2,614	5%
Recreation, sports, and leisure	2,390	4%
Vehicle modification and transportation	98	<1%
TOTAL # OF DEVICES LOANED	54,274	100%

Source: U.S. Department of Health and Human Services, Administration for Community Living, Center for Assistive Technology Act Data Assistance – National Assistive Technology Act Data System, State Grants for AT Program annual progress report aggregate data for FY 2016. Last accessed April 2017.

Sixty-nine percent or 27,521 device loans were made to individuals for the primary purpose of decision-making. Other reasons borrowers cited for wanting a short-term device loan included accommodation (14 percent), a loaner during repair/waiting for funding (9 percent), and for training/personnel development (8 percent). Over half of surveyed consumers (53 percent) who received a device loan cited community living as the primary purpose for which they needed an AT device. Education was the second most common purpose (36 percent), followed by employment (11 percent).

Device Loan Anecdotes REPAIR AND TEMPORARY REPLACEMENT OF A CRUCIAL DEVICE

Tim came to the Washington AT Program for an evaluation for his telecommunication needs under the National Deaf Blind Equipment Distribution Program. During his evaluation, he mentioned that his hand-held magnification device was malfunctioning, and asked if there was someplace he could take the device for repair.

The AT specialist referred Tim to an organization that sells and repairs magnification devices, and pointed him to the AT Program's lending library for hand-held magnifiers he could borrow while his device was being repaired. Thanks to the full-service orientation of the state program, Tim was able to borrow a hand-held magnifier to help him read his mail and other print items while his own device was being repaired, maintaining his independence.

THROUGH TELEPRESENCE TO ACADEMIC IMPROVEMENT

McKenna, a high school student, had not been able to attend classes since 6th grade due to a genetic condition. During a public awareness event conducted by the Missouri AT Program, special educators from the school district learned about the Double 2 telepresence robot, and thought instantly of McKenna.

Before the school made a decision to purchase the device, the Missouri AT Program conducted a demonstration for them. Then the school borrowed the device from the program's device loan library to "try before you buy."

During the loan period, it was clear that with the robot, McKenna was like any other student sitting in class: the teacher sees her, she can ask questions, and the teacher responds, just like her peers. More important, though, is McKenna's academic gain. As her math teacher remarked: "I've seen her blossom mathematically."

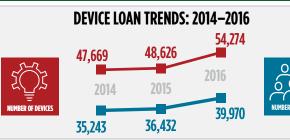
The school bought the device with the support of federal Individuals with Disabilities Education Act (IDEA) funds set aside specifically to support AT purchases (a program administered by Missouri Assistive Technology on behalf of the Missouri Department of Education.)

Return on Investment

39,970 device loans were made to individuals or agencies with 54,274 devices borrowed from short-



agencies with 54,274 devices borrowed from shortterm device loan programs. Of these device loans, 84 percent resulted in borrowers determining a device would meet their needs supporting a "good" investment to acquire the device while another 11 percent determined a device would NOT meet their needs preventing a "bad" investment. 5% responded as undecided or did not respond.



DEVICE REUTILIZATION PROGRAMS

Assistive technology reutilization involves transferring a previously owned device from someone who no longer needs it to someone who does. Device reuse falls into three activity categories. The first one, device exchange, usually occurs through an online forum where sellers and buyers can connect. Recycling, refurbishment, and repair (RRR) is the second category. In this type of program, devices are typically obtained from individuals who no longer need them, are refurbished, and then provided to new owners. Lastly, open-ended loan programs take previously used devices and loan them to individuals who can use them as long as they are needed, with the expectation the devices would be returned to the program at some point.

In FY 2016, 63,249 consumers received a total of 79,223 reutilized devices from all fifty-six AT Programs, resulting in an overall savings of \$31.6 million. As Table 5 shows, the vast majority of AT devices provided through reuse programs were for mobility or seating (51 percent) and daily living (39 percent).

TABLE 5: DEVICE REUTILIZATION SUMMARY BY DEVICE TYPE

Type of AT Device	# of Devices	Percent of Devices	Total Savings	Percent of Savings
Mobility, seating	40,019	51%	\$21,201,576	67%
Daily living	31,155	39%	\$5,967,221	19%
Computers and related	2,580	3%	\$543,144	2%
Environmental adaptations	1,298	2%	\$420,224	1%
Hearing	1,079	1%	\$273,280	1%
Vision	915	1%	\$512,132	2%
Recreation, sports, and leisure	848	1%	\$116,547	<1%
Speech communication	704	1%	\$1,916,320	6%
Learning/cognition	476	1%	\$125,684	<1%
Vehicle modification & transportation	149	<1%	\$597,457	2%
TOTAL	79,223	100%	\$31,673,585	100%

Source: U.S. Department of Health and Human Services, Administration for Community Living, Center for Assistive Technology Act Data Assistance – National Assistive Technology Act Data System, State Grants for AT Program annual progress report aggregate data for FY 2016. Last accessed April 2017.

The most common device reutilization activity was recycling/ refurbishment/repair (RRR). Eighty percent of recipients received devices through an RRR program, saving over \$25 million. Of the services provided through reutilization programs, RRR activities provided the greatest savings to recipients. From FY 2015 to FY 2016, there was a 25 percent increase in the number of people who received devices and a 23 percent increase in the number of devices that were received. Overall, there was a 13 percent increase in the overall savings to recipients of device reuse programs from FY 2015 totaling well over \$31 million.

TABLE 6: NUMBER OF RECIPIENTS, DEVICES, AND SAVINGS BY TYPE OF REUTILIZATION ACTIVITY

Activity	Number (%) of Device Recipients	Number (%) of Devices	Total Savings To Recipients	Percent of Savings to Recipients
Recycle/refurbish/ repair (RRR)	50,543 (80%)	62,404 (79%)	\$25,633,760	81%
Open-ended loans	10,873 (17%)	13,361 (17%)	\$4,280,828	14%
Device exchange	1,842 (3%)	3,458 (4%)	\$1,758,997	6%
TOTAL	63,249 (100%)	79,223 (100%)	\$31,673,585	100%

Source: U.S. Department of Health and Human Services, Administration for Community Living, Center for Assistive Technology Act Data Assistance – National Assistive Technology Act Data System, State Grants for AT Program annual progress report aggregate data for FY 2016. Last accessed April 2017.

Recipients of AT through the device reutilization program were surveyed about the primary purpose for which AT was needed. Out of the 62,936 respondents, 93 percent gave community living as the primary purpose, followed by education (5 percent) and employment (3 percent).

Device Reutilization Anecdotes

BRIDGING THE GAP BETWEEN DEVICES

Michael was referred to the Pennsylvania State AT Program through the Bureau of Blindness and Visual Services, which had approved a new electronic enlargement device for employment. While he was waiting for the new enlarger, Michael needed a device to bridge the gap so he could start working immediately.

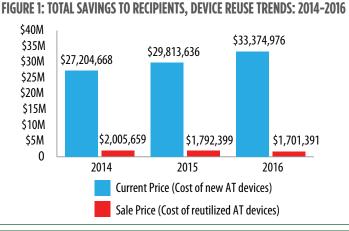
Quick access to a reused device allowed Michael to start earning and paying taxes immediately, as the request for the new CCTV went through the system. After he receives the new device, he'll continue to use the old one as a back-up. That way, he and his employer know he'll be able to continue his work without concern about a technology breakdown.

A SIMPLE SOLUTION FOR BATHTUB SAFETY

Sam recently had modifications completed on his home, but was having difficulty transferring into his bathtub/shower safely. Even though he has progressive multiple sclerosis and uses a wheelchair, his health insurance wouldn't cover a transfer bench.

Because he was falling at least once a month in the bathroom, Sam contacted the reuse network supported by the Virginia AT Program. The bath bench Sam received has helped him avoid incurring serious injuries and costly medical bills.

After his positive experience with the statewide reuse program, Sam donated several durable medical equipment items that he no longer needed, and organized an equipment donation drive with his church to benefit the program.



Return on Investment



63,249 recipients acquired 79,223 reutilized devices. Recipients saved a reported \$31,673,585 by obtaining

reutilized AT instead of new. The vast majority (91 percent) of recipients indicated that if the state financing activity they used was not available they would not have been able to purchase/ obtain the AT due to cost or availability potentially resulting in individuals who are unable to successfully work, learn or live in the community.

DEVICE REUSE TRENDS: 2014–2016



STATE-LEVEL ACTIVITIES

STATE FINANCING

State financing activities assist individuals with disabilities to acquire needed AT though three types of programs: 1) financial loan programs that provide cash loans that borrowers can use to purchase AT, 2) other activities that result in direct AT provision, and 3) additional activities that allow consumers to obtain AT for a reduced cost. Funds authorized under the AT Act of 1998, as amended, cannot be used to purchase AT devices or services directly for consumers (ED, 2011).

State Financing - Cash Loan Programs

Thirty-two State AT programs reported data on financial loans made. These programs issued 842 loans for AT device(s) totaling \$6,425,783. The average annual income of loan recipients was \$42,252 and the national average interest rate was 3.67 percent. Out of 842 loans issued, 26 percent were made to applicants with annual incomes of less than \$15,000 and another 24 percent were made to applicants with annual incomes between \$15,001 and \$20,000. The overwhelming majority of total loan dollars issued (67 percent) was for vehicle modification and transportation technologies, averaging \$18,404 per loan. Hearing AT ranked first in number of devices financed averaging \$3,821 per loan. For a more detailed breakdown of loans by device type, refer to Table 7.

TABLE 7: TYPES AND DOLLAR AMOUNTS OF AT ACQUIRED WITH FINANCIAL LOANS

Type of AT	# of Devices Financed	Device Percent	Dollar Value of Loans	Dollar Percent	Average Loan Amount
Hearing	359	42%	\$1,371,789	21%	\$3,821
Vehicle modification and transportation	235	27%	\$4,324,942	67%	\$18,404
Computers and related	100	12%	\$62,725	1%	\$627
Mobility, seating and positioning	58	7%	\$238,871	4%	\$4,118
Environmental adaptations	38	4%	\$248,369	4%	\$6,536
Vision	37	4%	\$44,184	1%	\$1,194
Daily living	17	2%	\$61,144	1%	\$3,597
Recreation, sports, and leisure	8	1%	\$55,865	1%	\$6,983
Speech communication	5	1%	\$1,894	<1%	\$379
Learning, cognition	3	<1%	\$16,000	<1%	\$5,333
Total	860	100%	\$6,425,783	100%	\$7,472

Source: U.S. Department of Health and Human Services, Administration for Community Living, Center for Assistive Technology Act Data Assistance – National Assistive Technology Act Data System, State Grants for AT Program annual progress report aggregate data for FY 2016. Last accessed April 2017.

Other State Financing Programs that Provide AT

Fifteen states reported data on other financing activities that resulted in the acquisition of AT devices and services. These programs typically purchased AT using external funding provided to the AT Program by another agency and directly provide that AT to eligible recipients. These programs are frequently limited in focus, only providing a particular type of AT (such as telecommunications), or restricted to individuals with a specific kind of disability (autism), or require individuals be eligible for a specific funding source (such as IDEA) to obtain the AT.

In FY 2016, these programs served 2,633 individuals and provided 3,426 AT devices. Almost half (42 percent) of the total technologies funded were hearing devices. Environmental adaptations constituted 33 percent (\$1,165,996) of the total value of AT provided (\$3,577,957), but made up only 9 percent of total devices funded.

Other State Financing Programs that Reduce the Cost of AT

Nine states reported data on other state financing activities that allowed consumers to obtain assistive technology at a reduced cost. These programs included cooperative buying programs, a vision equipment lease program, and device design and development.

In FY 2016, these other state financing activities served 2,374 individuals, and 3,628 devices were acquired at a total savings of \$2,132,198. Out of all the AT categories, hearing AT resulted in the highest savings to consumers (\$5,889 per device). Devices for learning and cognition (1,293 devices), speech communication (630 devices), and vision (356 devices) combined made up 63 percent of acquired devices through other financing activities. This resulted in moderate savings per device (\$33 for each item for learning and cognition, \$39 for each device for speech communication, and \$1,266 for each vision device).

Individuals with disabilities who received services from state financing activities were contacted about the primary purpose for which AT was needed. Seventy percent of respondents cited community living as the primary purpose, followed closely by education (24 percent) and employment (6 percent).

State Financing Anecdotes

USING A LOW-INTEREST LOAN TO GAIN WHEELS

Pedro is a 43-year-old man with cerebral palsy who lives in rural New Mexico. Since his father's passing, he is totally dependent on his 78-year-old mother for his daily care. Although Pedro's father was able to lift and transfer him from his wheelchair to the car, this task is impossible for his mom. The only solution for transporting Pedro to doctor's appointments and to community or family events was an accessible van.

Through New Mexico's Access Loans Program and its low interest rate, Pedro and his mom were able to purchase a 2011 Dodge Caravan with a rear ramp. Transportation problem solved!

AN INGENIOUS, LOW-COST ADAPTATION

Georgie uses a head-tracking system to control his computer, as well as a computer-based environmental control system. Although he had full control of much of his environment, he was not able to control his automatic bed. He had researched bed controllers, but found that most models were not compatible with his bed's model and were quite expensive (over \$1,300).

Though the Puerto Rico AT Program's Low-Cost Device Design and Development (LD3) program, a device was created to control Georgie's bed through the infrared signals sent by his computer-based environmental control system. The adapted device was seamlessly integrated as a plug-n-play system into the bed controller, so that the bed itself was not altered in any way (thus avoiding warranty issues). This LD3 adaptation was fully compatible with Georgie's bed. It could control all bed functions and be upgraded to control additional devices, and it cost only \$50 to make. Today, Georgie can independently control his bed, thus reducing the cost of caretakers, minimizing the chance of developing pressure ulcers, and increasing his overall quality of life.

Return on Investment

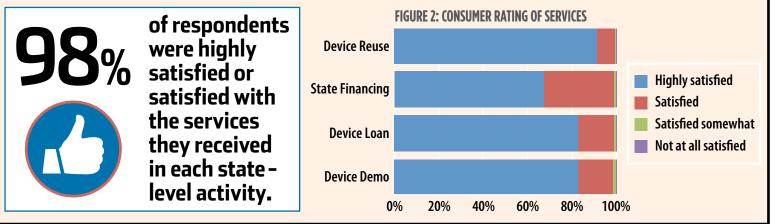


5,849 recipients obtained 7,914 devices through state financing activities with a value or savings of over \$12 million. The vast majority (95 percent) of recipients indicated that if the state financing activity they used was not available they would not have been able to purchase/obtain the AT due to cost or availability potentially resulting in individuals who are unable to successfully work, learn or live in the community.

10

CONSUMER SATISFACTION RATINGS OF STATE LEVEL ACTIVITIES

Consumers of AT Program services were asked to report their satisfaction with the services they received. Figure 2 shows the responses to consumer satisfaction questions for each of the state activities. As we can see, the vast majority (>98 percent) of respondents were highly satisfied or satisfied with the services they received in each state activity. Device reuse programs had the highest consumer satisfaction out of all state activities, with 99.4 percent of consumers highly satisfied or satisfied, followed by state financing and device loan programs (99 percent). Device demonstration programs have customer satisfaction ratings of 98 percent.



STATE ACTIVITIES PERFORMANCE MEASURES

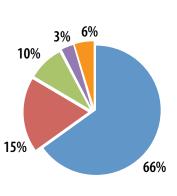
ACQUISITION PERFORMANCE

Consumers were surveyed about the primary purpose of device acquisition and why they chose to participate in any of the following four programs: state financing services, device exchange, device reuse, and open-ended loans. Sixty-six percent of consumers stated that they could only afford AT through these programs. Fifteen percent said that the AT needed was only available to them through these programs, and 10 percent responded that the AT was available to them through other programs, but the system was too complex or the wait time too long. Community living was by far the most common purpose for AT (85 percent). See Figure 3 for more details.

ACCESS PERFORMANCE

Consumers were surveyed about the kind of decisions they were able to make as the result of a device demonstration or device loan, as well as the primary purpose for which these devices are needed. As illustrated by Figure 4, these services have overwhelmingly contributed to individuals with disabilities or their representatives making an informed decision about AT.

Eighty-six percent of respondents stated that an AT device would meet their needs, or those of someone they represent. Another 7 percent of consumers stated that an AT device would not meet their needs (which is still an important decision outcome), and 5 percent did not make a decision. Community living (64 percent) and education (27 percent) were the most commonly reported purposes for AT, as shown in Figure 4. FIGURE 3: WHY CONSUMERS OBTAINED A DEVICE FROM THE STATE AT PROGRAM



5%

7%

verall Acquisition erformance Measure	Education	Employment	Community Living	
Could only afford the AT through the AT program	4,274	1,859	46,949	
AT was only available through the AT program	1,930	403	9,722	
AT available through other programs, but system complex/wait time too long	1,181	535	6,067	
None of the these	276	179	2,031	
Nonrespondent	525	360	4,074	
TOTAL	8,186	3,338	68,843	

FIGURE 4: KINDS OF CONSUMER DECISIONS THE STATE AT PROGRAM ENABLED

- 2%	Overall Access Performance Measure	Education	Employment	Community Living	
	Decided AT will meet needs	17,245	5,908	41,808	
	Decided AT will not meet needs	1,772	544	3,028	
	Have not made a decision	991	344	2,060	
86%	Nonrespondent	548	113	1,083	
	TOTAL	20,556	6,909	47,979	

TRAINING

Training activities are instructional events, planned in advance for a specific purpose or audience. Examples of training include classes, workshops, and presentations that have a goal of increasing skills, knowledge, and operational competence with the technology, as opposed to training intended only to increase general awareness of AT (ED, 2011). In FY 2016, AT Programs trained a total of 117,220 participants. Education representatives (27 percent) were closely followed by individuals with disabilities (24 percent) as the types of individuals who were most likely to receive training.

Forty-three percent of participants attended trainings about AT products and services, which focused on increasing skills and competencies in using AT, and integrating AT into different settings. Thirty-three percent of participants attended trainings on a combination of any or all of the following topics: AT products/services, AT funding/policy/ practice, and information technology/telecommunication access. Trainings on transition were attended by 9 percent of participants. AT funding/policy/practice and information technology/telecommunication access trainings were attended by 7 percent of training participants combined.

PUBLIC AWARENESS

Public awareness activities include public service announcements, Internet outreach and social media, radio talk shows and news reports, newspaper stories and columns, newsletters, brochures, and public forums. The exact number of people who receive information through these public awareness activities is large, but is often difficult to quantify precisely, and estimates must be reported (ED, 2011).

In FY 2016, AT Programs reached an estimated 19,093,494 people through their awareness activities. Out of the estimated total reached, 33 percent of individuals were contacted through public service announcements on radio or television, 18 percent through other print materials, 16 percent through the Internet, and the remaining outreach activities were distributed among listservs (14 percent), newsletters (10 percent), other electronic media (6 percent), and public forums (2 percent).

INFORMATION AND ASSISTANCE

Information and assistance (I&A) activities are those in which state AT Programs respond to requests for information or put individuals in contact with other entities. These other entities can provide individuals with information and intensive assistance on AT devices/services or AT funding.

In FY 2016, 445,293 individuals were recipients of I&A. Of the two I&A content areas, information about specific AT products/devices/services was the most common, with 82 percent of recipients requesting this type of information. Eighteen percent received information on obtaining funding for AT. The largest recipient group of I&A was family members/ guardians/authorized representatives (25 percent), followed by individuals with disabilities (24 percent), representatives of health, allied health, and rehabilitation (14 percent), representatives of education (13 percent), and representatives of community living (12 percent). The remaining recipient types were representatives of employment (6 percent), representatives of technology (5 percent), and others (<1 percent).

TECHNICAL ASSISTANCE

Technical assistance (TA) is provided by state AT Programs to help programs and agencies improve their services management, policies, and/or outcomes. As a result of technical assistance and other activities, some AT Programs report state improvement outcomes with policy, practice, or procedure improvements that result in increased access to and acquisition of AT in the state. In FY 2016, the fiftysix grantees reported providing a majority of technical assistance to educational agencies (31 percent) and community living agencies (27 percent).

TABLE 8: PERCENTAGE OF AGENCIES THAT RECEIVED TECHNICAL ASSISTANCE

Program/Agency Type Receiving TA	Percent
Education	31%
Community living	27%
Employment	19%
Technology (IT, Telecom, AT)	12%
Health, allied health, and rehabilitation	11%
TOTAL	100%

Source: U.S. Department of Health and Human Services, Administration for Community Living, Center for Assistive Technology Act Data Assistance – National Assistive Technology Act Data System, State Grants for AT Program annual progress report aggregate data for FY 2016. Last accessed April 2017.

CONCLUSION

State and Territory AT programs have improved the ability of individuals with disabilities of all ages to fully engage in education, employment, and community living, propelling their chances to advance socioeconomically and achieve optimal self-sufficiency. State level and state leadership activities provide a continuum of services that reach a wide variety of individuals and provide access to a broad range of technologies.

AT Programs enable individuals with disabilities, their representatives, and others working with them to make informed decisions about accessing and acquiring technologies. The streamlined process allows consumers to receive information about a device and become familiar with it through loan and demonstration programs prior to making a costly purchase. When consumers are ready to acquire a device, the reuse and state financing programs provide an affordable purchasing avenue.

Leveraged funding is frequently secured by State AT Programs and is used to expand and maximize services. In FY 2016, State AT Programs leveraged \$17.2 million from federal, state, local and private sources. These leveraged dollars were used to supplement \$26.5 million in Section 4 AT Act formula grant funding for FY 2016 and expand program reach in all AT Act authorized activities. This report highlights close to \$65 million in savings and benefits delivered by State AT Programs in FY 2016 to over 750,000 service recipients.

INITIATIVES FROM THE FIELD

COMMUNITY LIVING

Staff of the Vermont AT Program worked with the state's Department of Motor Vehicles to provide technical assistance on making their online materials, including the state driver's



license manual, fully accessible. As a result, DMV staff updated their website to provide the manual in a format that can be accessed using text-to-speech and screen reader tools, in a digital audio file, and in an interactive version.

HEALTH CARE

The Colorado AT Program worked for a number of years with the Colorado Medicaid Office to negotiate a new Medicaid billing code for complex AT



evaluations. This change allowed clinicians to be more fairly reimbursed when evaluating individuals with complex needs, ensuring greater access to devices and services.

EMPLOYMENT

The Oklahoma AT Program worked to develop and ensure adoption of the <u>Roadmap of Accessibility Standards⁴</u> to be used by all Oklahoma Workforce System Partners. This certification



tool will ensure the accessibility of the physical (built) environment, as well as information and communication technology, for all job seekers with disabilities under the Workforce Innovation and Opportunity Act (WIOA).

EDUCATION & TRANSITION

The Connecticut Assistive Technology (AT) Program and its lead agency, the Bureau of Rehabilitation Services, sponsored a one-week overnight camp ("AT Camp") held on a fully accessible



campground. The purpose of AT Camp was to offer a summer camp experience and to promote transitional success for students with disabilities (ages 16 to 21) who were still in school, and were preparing for college, employment, or community programs.

Campers participated in learning opportunities, including interview preparedness and interacting with adults with disabilities to discuss their journey to independent living and employment, and work experiences such as job shadowing, all while incorporating AT into their routines. Each day, campers recorded video blogs of their experiences. They created an AT portfolio highlighting what they learned, the AT they used, and the AT that was most helpful to them. Each camper received a letter of recommendation and a copy of their AT portfolio to share with their school and their vocational rehabilitation counselors.

INFORMATION AND COMMUNICATION TECHNOLOGY ACCESSIBILITY

The Georgia AT Program partnered with a number of other organizations to form a coalition working on the



GeorgiaGov Accessibility Initiative. With a focus on improved color contrast and code functionality, the GeorgiaGov Accessibility Initiative was the first enterprise-wide initiative to make their web platform accessible by federal standards and even beyond.

The National Association of State Chief Information Officers recognized GeorgiaGov's Accessibility Initiative with their State IT Recognition Award for Digital Government: Government to Citizen for 2016.

VOTING ACCESSIBILITY

District of Columbia AT Program staff and a network of disability rights consumers, advocates, and



other volunteers provided technical assistance and supported accessibility surveys of 88 polling precincts throughout DC prior to the June 2016 primary election. The goal was to ensure full participation of people with disabilities in the electoral process, including registering to vote, casting a vote, and accessing polling precincts and voting equipment. A report was issued to the DC Board of Elections outlining the accessibility concerns identified at each precinct, along with recommendations for improving access.

ABLE ACCOUNTS

Kansas AT Program employees were invited to speak at the national conference for state treasurers and their



staff. The presentation highlighted examples of the use of AT across the life span of individuals with disabilities. This led to a discussion of allowable expenses for Achieving a Better Life Experience (ABLE) account holders, ensuring broad access to supports for AT under this new program.

AGING

The Virginia AT Program worked collaboratively with the Arlington

Commission on Aging to develop a training toolkit of AT options for "Vintage Virginians" (ages 55+). The commission serves in an advisory capacity to the Arlington County Area Agency on Aging.

AT Program staff participated in a workgroup with advocates to develop this training over the course of about 2 years. The training provides information on AT to support Virginians and their caregivers to safely age in place. The purpose of the toolkit/suitcase is to demonstrate that low- and mid-cost AT can help Virginians safely age in place longer, without having to transition to a nursing facility.

⁴ www.ok.gov/abletech/Workforce_for_All/Roadmap_for_Accessible_Standards_Certification.html

RESOURCE INFORMATION

<u>Contact and other information on each State AT Program</u>⁵ can be found on the Center for Assistive Technology Act Data Assistance (CATADA) website.

The CATADA website also provides an <u>overall summary data report</u>⁶ for Fiscal Year 2016 that provides data on the major AT Act activities by state.

Staff of the Administration for Community Living (ACL) produced this Report to Congress, with assistance from the Center for Assistive Technology Act Data Assistance (CATADA) under Grant No. 90AN0001-01-00. The mention of trade names, commercial products or organizations in this report does not imply endorsements by the U.S. government. This publication also contains uniform resource locators (URLs) for information created and maintained by organizations outside of the federal government. This information is provided for the reader's convenience. The Administration for Community Living does not control or guarantee the accuracy, relevance, timeliness, or completeness of this outside information. Further, the inclusion of information or URL does not reflect the importance of the organization, nor is it intended to endorse any views expressed, or products or services offered.

This publication is available in accessible digital format on ACL's website 7 and on the CATADA website $^8\!.$

This report is in the public domain. Authorization to reproduce it in whole or in part is granted. While permission to reprint this publication is not necessary, the citation should be U.S. Department of Health and Human Services, Administration for Community Living, Annual Report to Congress on the Assistive Technology Act of 1998, as Amended, for Fiscal Year 2016. Washington, D.C., 2017.

- ⁵ www.catada.info/content/state-program-information
- ⁶ www.catada.info/overall-summary-report2?year=2016
- ⁷ www.acl.gov/about-acl/reports-congress-and-president
- ⁸ www.catada.info/publications.