Consider Technology First: Technology Across the U.S.

Shea Tanis, Ph.D.
Acting Executive Director,
Coleman Institute for Cognitive Disabilities

NASDDDS Directors Forum & Mid-Year Conference
June 7, 2018
Columbus, Ohio
“Technology shapes society and society shapes technology”

-Robert Winthrop White
State Expenditures for Technology Solutions

- State of the States in Intellectual and Developmental Disabilities Project of National Significance housed at the Coleman Institute for Cognitive Disabilities has been collecting data on technology since 2007.
Technology Spending by IDD Agencies 2008-2017

Total Spending $66.5 Billion for IDD Services and Supports
Participants Using Technology By Year

Total Participants in Out-Of-Home Residential Settings
2017
648,585

Coleman Institute for Cognitive Disabilities
UNIVERSITY OF COLORADO
Boulder | Colorado Springs | Denver | Anschutz Medical Campus
Technology Solutions State Survey

• Purpose: To investigate creative funding mechanisms and interest in technology solutions for people with IDD across the U.S.

• 27 States Responded
What Technology Services and Supports Does Your State Currently Fund?

- Environmental Accessibility Adaptations (EAA), Home Modifications or Environmental Controls: 27
- Assistive Technology: 25
- Vehicle Modifications: 24
- Durable Medical Equipment: 24
- Adaptive Aids and Equipment: 21
- Personal Emergency Response System: 21
- Assistive Technology Evaluation: 20
- Electronic or Remote Monitoring: 14
- On-going Technology Training: 10
- Smart Home Technology: 6
- Technology Based Companion Care: 1
Are Smart Home Technologies Included in Environmental Accessibility Adaptations (EAA), Environmental Controls or Home Modifications?

- 64% No
- 32% Yes
- 4% Not Applicable
Application of Remote Teleservices in States

- Other: 4
- Eligibility Determinations or Assessments: 6
- Plan of Care / Individual Support Plan Development or Monitoring: 6
- Healthcare Monitoring (Telecare): 8
- Therapeutic Services (Telemedicine): 9
Federal Funds are Utilized to Purchase Technology Services, Applications, Devices or Other Technology Solutions

- HCBS Waiver: 27
- Vocational Rehabilitation: 18
- State Plan: 18
- State General Fund: 14
- Other: 8
- Money Follows the Person Program: 7
- Balancing Incentives Program: 1
- Assistive Technology Act Program: 1
Does Your State Provide Funding for Ongoing Technology Training to Learn, Upkeep and Update Purchased Technology?

- Yes: 48%
- No: 52%
Federal Funds are Utilized to Provide Ongoing Technology Training to Learn, Upkeep, and Update Purchased Technology

- HCBS Waivers: 12
- Not Applicable: 11
- Other: 7
- Money Follows the Person Program: 3
- State Plan Funds: 3
- General Fund: 3
- Vocational Rehabilitation: 2
- Assistive Technology Act Program: 1
Services Purchased with Public Dollars, Pilots or Special Programs

<table>
<thead>
<tr>
<th>Service</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tablets/Computers</td>
<td>12</td>
</tr>
<tr>
<td>Smartphones</td>
<td>7</td>
</tr>
<tr>
<td>Smart Home Solutions</td>
<td>7</td>
</tr>
<tr>
<td>Accessible Appliances</td>
<td>7</td>
</tr>
<tr>
<td>Digital Health Sensors/Trackers</td>
<td>6</td>
</tr>
<tr>
<td>Executive Functioning or Memory Aids</td>
<td>6</td>
</tr>
<tr>
<td>Wayfinding or GPS Technology Services</td>
<td>6</td>
</tr>
<tr>
<td>Shared Transportation Services</td>
<td>4</td>
</tr>
<tr>
<td>Internet/Broadband</td>
<td>2</td>
</tr>
</tbody>
</table>
State Adoption of Electronic Documentation Systems

- Billing (16 states)
- Plan of Care / ISP Record (12 states)
- Updating ISP Documentation (11 states)
- Staff Management (5 states)
Technology Solutions Supported Through Residential Rates

- Internet/Broadband Service: Direct Payment As a Service (2), Other Payment Mechanism (1)
- Smartphones: Direct Payment As a Service (2), Other Payment Mechanism (3)
- Tablets/Computers: Direct Payment As a Service (6)
- Shared Transportation: Direct Payment As a Service (1), Indirect Payment Through Inclusion in Residential or Other Rate (1)
- Smart Home Solutions: Direct Payment As a Service (2), Indirect Payment Through Inclusion in Residential or Other Rate (2)
- Wayfinding or GPS Technology Service: Direct Payment As a Service (3)
- Executive Functioning or Memory Aids: Direct Payment As a Service (3)
- Digital Health Sensors/Trackers: Direct Payment As a Service (3)
- Accessible Appliances: Direct Payment As a Service (3), Other Payment Mechanism (2)
Is the Consideration of Technology Supports and Services a Requirement Within the ISP or Person-Centered Plan?

Yes 56%
No 44%
How do Families Discover Technology Solutions?

1. Assistive Technology Act Programs
2. Case Managers
3. Universities
4. Advocacy Organizations
5. Conferences
What Emerging Technologies Are States Interested In?

1. Smart Homes
2. Remote Monitoring
3. Health Care Related Technologies: Telehealth, Telemedicine, Health Sensors, etc.
4. GPS or Shared Transportation
5. Hardware (Tablets, Computers, Smartphones, Apps, and Wearables)
Technology Solutions State Survey

Open

Respond to the survey link by June 22, 2018
Contact Information

Shea Tanis
Coleman Institute for Cognitive Disabilities
University of Colorado
303-860-6141
Shea.tanis@cu.edu
One4One

2018 Annual Coleman Institute Conference on Cognitive Disability and Technology

OCTOBER 3, 2018

Register at: www.colemaninstitute.org

Coleman Institute for Cognitive Disabilities
UNIVERSITY OF COLORADO
Boulder | Colorado Springs | Denver | Anschutz Medical Campus