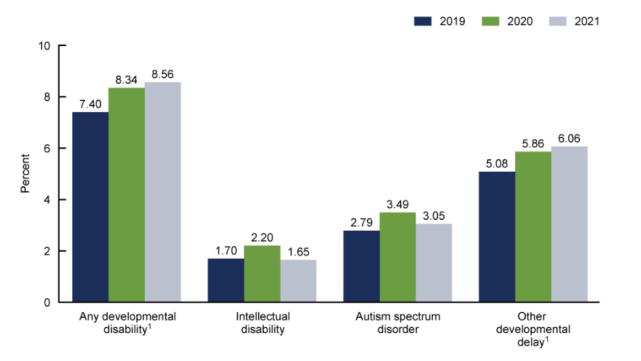
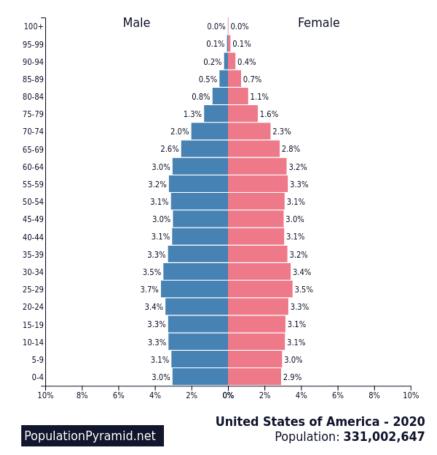
Smart Living Using Technology to Solve the Staffing Crisis and Improve Outcomes

More and more people with disabilities need support with a shrinking workforce



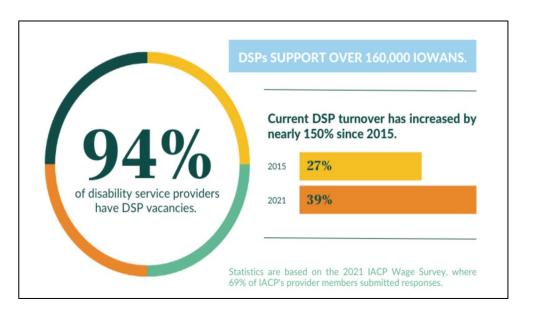


And the problem is only getting worse

'People will die waiting': America's system for the disabled is nearing collapse

Providers for intellectually and developmentally disabled struggle to recruit and retain staff amid soaring inflation, pandemic burnout.





Fears, frustration mount as Minnesota's long-term care staffing crisis deepens Peter Cox October 5, 2022 4:00 AM

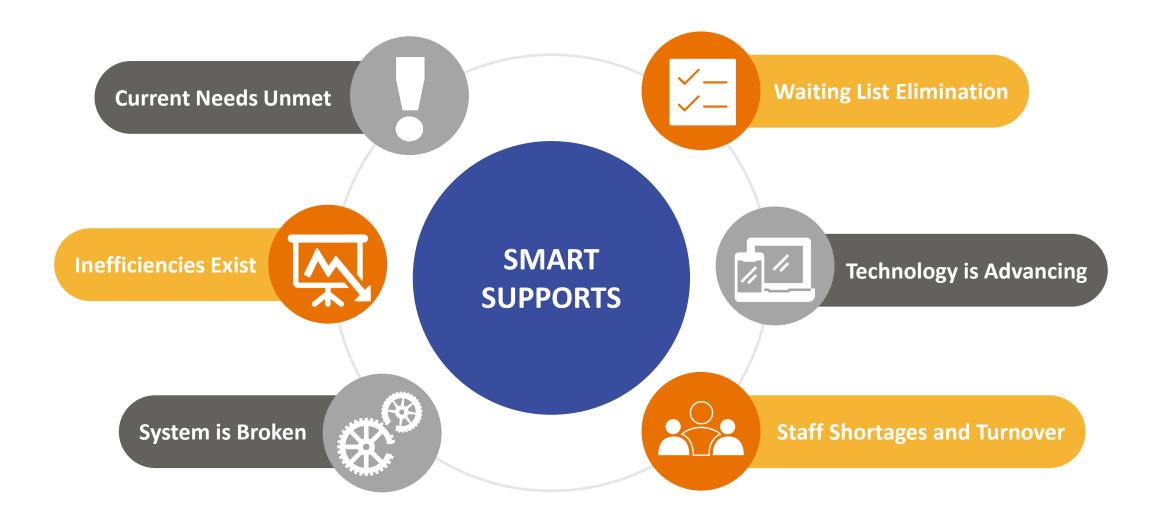


©CBSNEWS NEWS SHOWS LIVE LOCAL I Q Login U.S.) Nearly 1 in 10 U.S. children have been diagnosed with a developmental disability, CDC reports

BY ALEXANDER TIN JULY 13, 2023 / 12:01 AM EDT / CBS NEWS



WHY NOW?



SMART LIVING'S MODEL

Empowering states and providers with an affordable technology-enabled service model that furthers community integration, independence and opportunities for and with people with developmental disabilities.

INNOVATING A NEW MODEL

Smart Living Pilot:

- 1. Three years
- 2. Smart home technology
- 3. Wearables
- 4. Staffing efficiencies

Forever, Home geographical zones:

LOWER COST OF SERVICES

TECHNOLOGY

- 1. Homes in walkable neighborhood
- 2. Close Proximity to each other
- 3. Self-Directed Teams
- 4. Outcome Based Service Delivery

INTEGRATION

Smart Living Pilot Successes

Published research on what technology investments have the greatest ROI and/or impact on independence

A means for remote supports once a person leaves their home developed alongside service specific apps



An alternative service model for people that have not gotten the waiver and are not likely going to be in an "emergency situation.".....

Significant cost savings and increased



Decreased reliance on publiclyfunded supervision & longterm costs



INNOVATING A NEW MODEL



To address the growing demands and challenges with the current system, LADD proposes a new model without congregate living:

SMART LIVING MODEL

TECHNOLOGY

Leverage technology and training to increase independence

NUMBER OF RESIDENTS

Serve a smaller number of residents per home, and higher number per agency

TRAINING

Provide targeted training and service for each individual, staff member, agency and families

LOCATION (Clusters)

In natural neighborhoods and integrated in the community—putting staff within a fiveminute drive

EFFICIENCY OF SERVICES

Develop an affordable service model that reduces Medicaid reliance and increases natural supports

SMART LIVING VS REMOTE SUPPORTS

ITEMS	REMOTE MONITORING	SMART LIVING
Emergency response within 30 minutes	\checkmark	✓
Live person available virtually 24/7 if needed	\checkmark	\checkmark
Use of sensors to trigger intervention	\checkmark	✓
Customized supports for each person	\checkmark	✓
Wearable technology with corresponding app	Sometimes	✓
Easy-to-use dashboard for real-time data	Sometimes	✓
Home automation integrated with the support system	Sometimes	✓
Customized tech suite/menu in excess of 100 devices		✓
Predictive services with daily service adjustments		✓
Significant staff efficiency		✓
Providers control and bills for their own services		✓
Customized health and wellness		✓
Continuing product development		✓
Corresponding staffing model		\checkmark
Outcomes and data-based service model		\checkmark
Supports follow individual into community		✓
Trained employees to provide virtual HCBS services		✓

A PERSON-CENTERED EXPERIENCE

ASSESSMENT

Assessment begins at the highest level and then works down granularly until we know what the persons needs and items that are important to and for them

TECHNOLOGY DETERMINATION

LADD Tech team matches items with available and appropriate technology

IN-PERSON NEEDS DETERMINED

Items not solved with technology delivered through Integrated Targeted Supports

TEAM INTEGRATION, PRE-START TRAINING

Once all determined and authorized, transition and training period begins

SMART HEALTH INTEGRATION

A focus on smart health integration is also vital

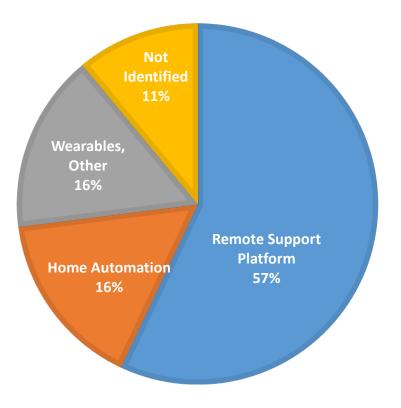
HOME AUTOMATION

Continuous follow up on changing technology and needs, hope is always to use less

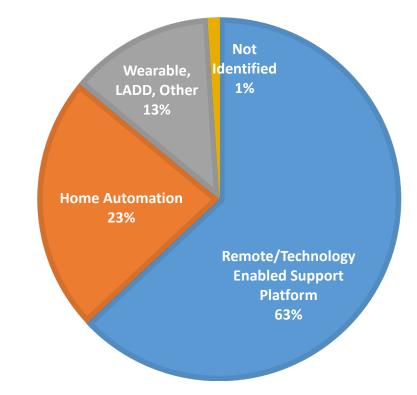
TOTAL SOLUTION SUMMARY

We have identified a solution for almost all "must have" requirements for candidates for Smart Living to live safely

89% of the **TOTAL REQUIREMENTS** have an Identified Solution



Over 99% of HEALTH AND SAFETY REQUIREMENT have an Identified Solution



1 PERSON'S SUPPORT NEEDS



COMMUNICATION

6 must have requirements relating to simple, voice, video & staff assistance



HOME MONITORING

14 must have requirements relating todetecting & monitoring activity within& around the home



SMART HEALTH

3 must have requirements relating to monitoring and measuring health metrics



DAILY ROUTINES

16 must have requirements relating to recurring tasks, calendars, reminders & messages for residents



EXTERNAL MONITORING

2 must have requirements relating to monitoring & assisting activity outside the home



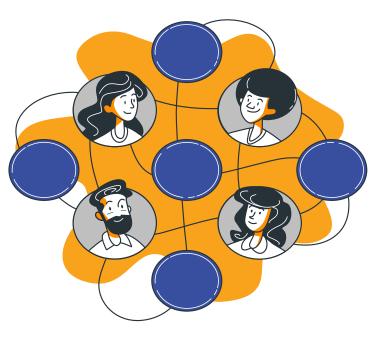
HOME AUTOMATION

15 must have requirements relating to inhome technology assistance & accessibility

A NEW STAFFING MODEL

CURRENT STAFFING MODEL:

• Be there in case something happens



NEW STAFFING MODEL:

- Elimination of block-time caregiving
- Needs not solved by technology use targeted intervention specialists
- Intervention specialists specialize in areas they are passionate about
- Remote Support Staff provide anticipatory supports, monitor for needs and drop in virtually for scheduled supports
- All time spent by staff is value-added
- Model allows for efficiency in staffing. Currently, where we typically utilize 16-18 FTEs, we will be utilizing 5 FTEs, paying them more and then providing tech-enabled supports where the ratios are 1 to 25

Smart Living Homes







14



- Over 3 years into the program
- Successfully reduced staff time by over 100 hours per/wk per site on average
- Xavier study on technology and independence showed incredible results
- Partnership with health companies for smart health devices
- Expansion of additional devices at home to further tech testing
- Service model currently being used in over 60 sites, ranging from



Smart Living Pilot Successes





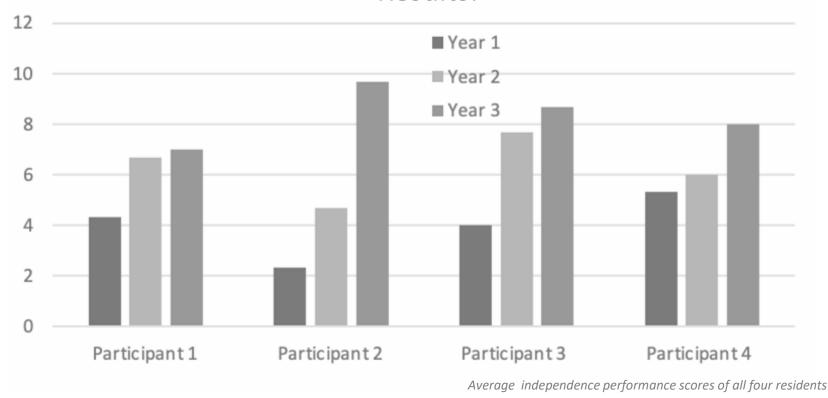




- Wearable tech to assist with transportation issue.
- Smart refrigerator for meal assistance
- Smart shoe insoles to increase inclusive community independence
- Staff ability to take needed time away and switch back and forth
- New Model significantly reduces staffing needs for new expansion

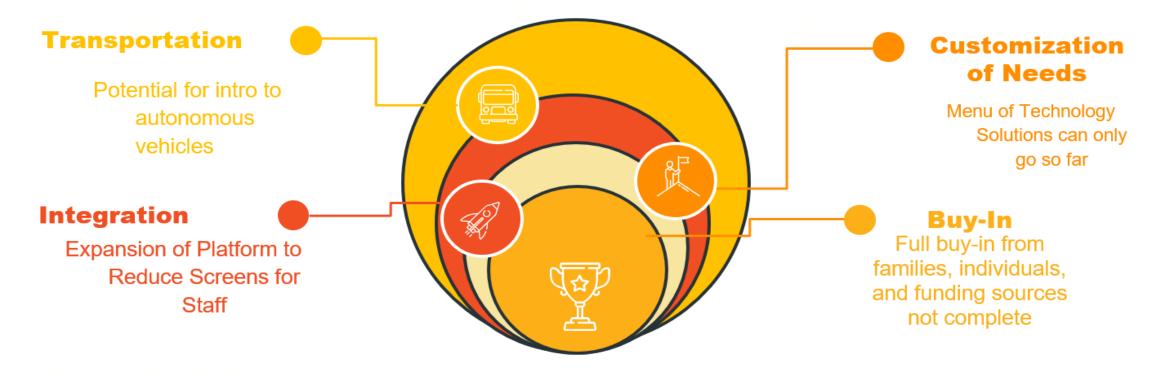
THE RESULTS

Xavier University Occupational Therapy 3-year Study Results:



"Over three years, the decrease in direct caregiving supplemented by technology in the smart home led to a decrease in overall cost of caregiving. Furthermore, this study found that individuals with DD who moved into a smart home improved their performance of and satisfaction with selected daily tasks over three years."

Where are the Gaps?



Smart Living Service Model Toolkit

In Conjunction with Xavier University Department of Occupational Therapy LADD is developing a toolkit to share with other entities





THANK YOU

bhart@laddinc.org

Brian Hart

Smart Living Systems by LADD Chief Executive Officer www.laddinc.org