



We are ladd 

46 years ago, LADD was founded by families of adults with developmental disabilities who sought to address a critical need in our community. Today, LADD serves over 600 people with developmental disabilities – many of whom are low income – for as long as they need services. LADD uses its programs to cultivate and grow components of a meaningful life



HOUSING

LADD offers integrated living opportunities that provide the necessary support to help people learn independent living skills and live successful lives through community clusters and technology.



HEALTH AND WELLNESS

LADD ensure the Health and Wellness of the individuals we serve by a implementing outcome driven programs.



MEANINGFUL ENGAGEMENT

LADD organizes the Over-the-Rhine Film Festival each year to promote profound cultural change, elevate diversity, and ensure our communities build disability into all conversations.

Forever, Home: A new way of delivering services with a technology FIRST mindset



[Concept Video](#)

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Innovating A New Model

Smart Living Pilot:

1. Three years
2. Smart home technology
3. Wearables
4. Staff phase out
5. Remote supports in place

Forever, Home Community Clusters of Service

- Homes in walkable neighborhoods
- Close Proximity to each other
- Self-Directed Teams
- Outcome Based Service Delivery

SCALABILITY TO DRIVE SYSTEMIC CHANGE

INTEGRATION

TRAINING

TECHNOLOGY

LOWER COST OF SERVICES

Smart Living Pilot Outcomes

- ▶ A means for remote supports once a person leaves their home.
- ▶ An alternative service model for people that have not gotten the waiver and are not likely going to be in an “emergency situation.”



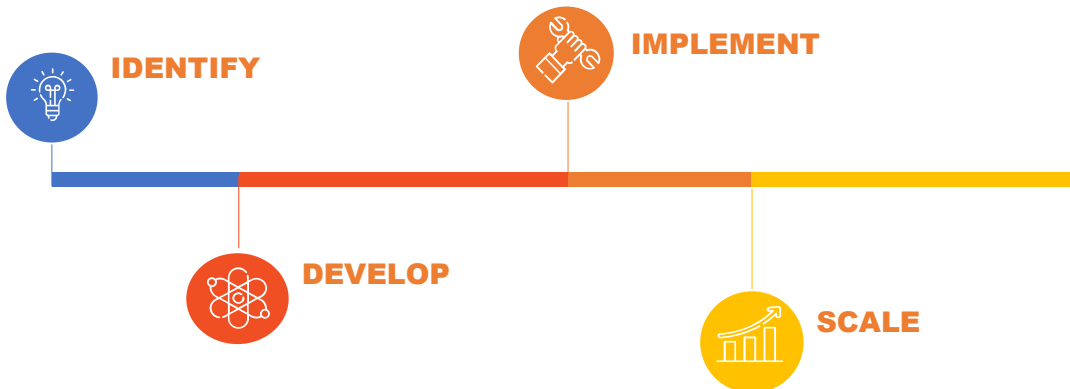
Increased self-sufficiency and safety



Decreased reliance on publicly-funded supervision & long-term costs



From Traditional Services to Technology First





IDENTIFY

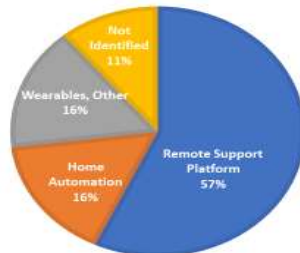
- What are our needs?
- Who is already doing this?
- What technology solutions exist?
- What platforms for service are available?

308 Total Requirements
 184 Must Have Requirements
 75 Should Have Requirements
 39 Nice to Have Requirements

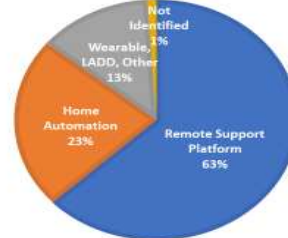
Total Solution Summary

We have identified a solution for almost all must have requirements

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



Over 99% of **MUST HAVE REQUIREMENTS** have an Identified Solution



DEVELOP

Solution Development Summary

COMMUNICATION



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

HOME MONITORING



14 must have requirements relating to detecting & 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



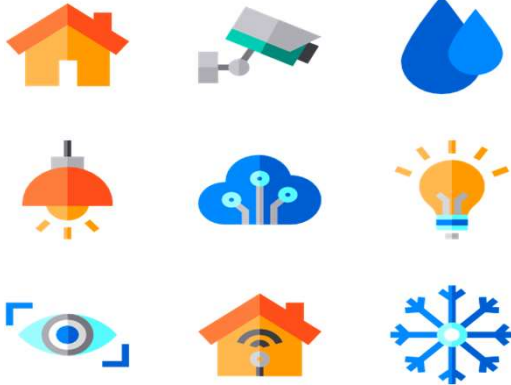
15 must have requirements relating to in-home technology assistance & accessibility



DEVELOP

Home Automation Summary

Handling **21** total requirements



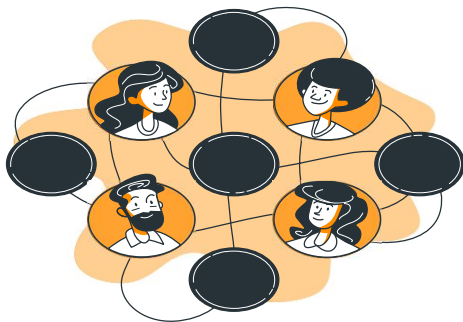
HOME INTEGRATIONS REQUIREMENTS

- Security System: *includes door, motion & glass break sensors*
- Smart Door Bell: *video & communication to RSC*
- Smart Home Entry: *key pad, fingerprint & facial recognition*
- Auto Lock Doors: *lock from outside automatically*
- Video monitoring & recording: *Internal & external*
- Smart Thermostat
- Smart Light Switches
- Automated Room & Safety Lighting: *motion, time or event-based lighting for rooms & hallways*
- Automated Blinds: *voice, mobile app, service center, scheduled*
- Temp/ Humidity Sensors
- Water Leak Detectors
- Smart Garage Door: *remote, time-based, alerts*
- Smart Home Hub: *integrated to Alexa voice control*
- Remote Service Center Controls: *Service Center can remotely control and monitor all the above items*
- Smart Appliances, including refrigerator, oven, dishwasher and laundry



DEVELOP

A New Staffing Model



- Elimination of block-time caregiving staff time
- 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 reduced staffing needs



IMPLEMENT

Smart Living Pilot Focuses



Heidt Smart Living Home



Wearable Technology

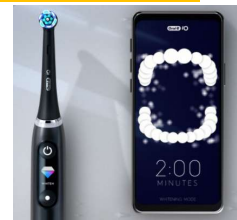


Remote/Technology Enabled Supports

Heidt Smart Living Home



IMPLEMENT



Heidt Smart Living Home

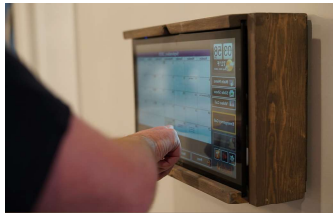
- Ten months into project
- Successfully reduced staff time by 100 hours per week
- Xavier study on technology and independence ongoing
- Partnership with Stanley/Black and Decker Health for smart health devices
- Expansion of additional devices at home to further tech testing



Smart Living Pilot Successes



IMPLEMENT



- Wearable tech to assist with transportation issue:
- Smart refrigerator for meal assistance
- Smart shoe insoles to increase inclusive community independence
- LADD Grandcare Smart Supports platform
- New Model significantly reduces staffing needs for new expansion

[Spectrum News Story](#)

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IMPLEMENT

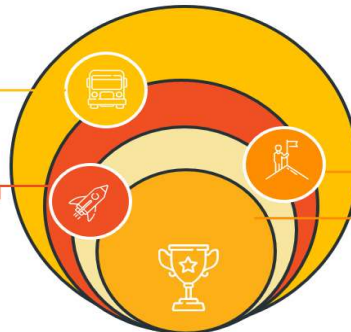
Where are the Gaps?

Transportation

Potential for intro to autonomous vehicles

Integration

Expansion of Platform to Reduce Screens for Staff



Customization of Needs

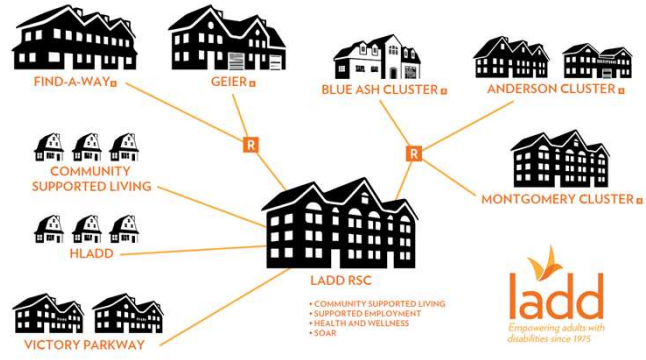
Menu of Technology Solutions can only go so far

Buy-In

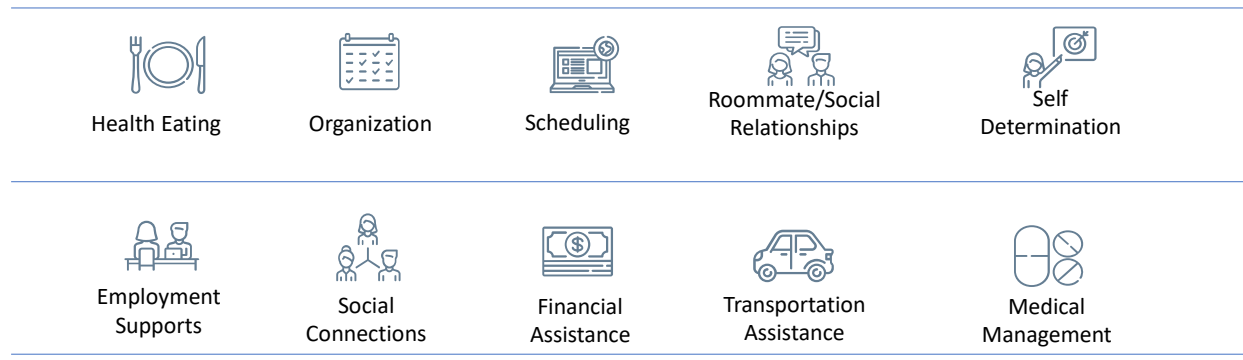
Full buy-in from families, individuals, and funding sources not complete

Forever, Home Community Cluster Service Model

- . Homes in walkable neighborhoods
- . Close Proximity to each other
- . Outcome Based Service Delivery
- . Shift from Typical Staffing Structure to Self-Directed Teams
- . Elimination of Caregiver Staff
- . Technology First Assessment of Needs
- . Value-Added Interventions as Needed



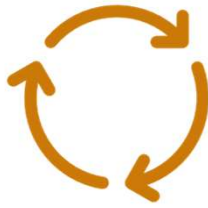
Value-added, In-Person Supports Performed by Intervention Specialists



A new service model



Smart Homes



Remote/Technology Enabled Supports



Community Clusters



Wearable Technology

[Move-In Video](#)

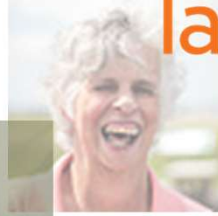
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THANK YOU

Brian Hart
LADD, Inc
Chief Strategy Officer

bhart@laddinc.org

www.laddinc.org



**ladd** Empowering adults with disabilities since 1975

Questions?