

Enabling the Better Provision of Care for People with Dementia

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Baycrest Seniors Care is ... all things aging



Baycrest

Creating a world where every older adult enjoys
a life of purpose, inspiration and fulfilment.

A photograph of the Baycrest Hospital building, a large multi-story orange brick structure with many windows and balconies. In the foreground, there is a green courtyard with several trees, some of which are bare, and a few people sitting on benches. The sky is clear and blue.

Baycrest Hospital

Serving 1,500+
older adults
daily

300 beds addressing
complex medical and
mental health needs

Rehabilitation,
advanced dementia
and comprehensive
ambulatory care

End-of-life and
palliative care

daily

mental health needs

ambulatory care
and comprehensive



Nursing Home

472 private
rooms
across 7 floors

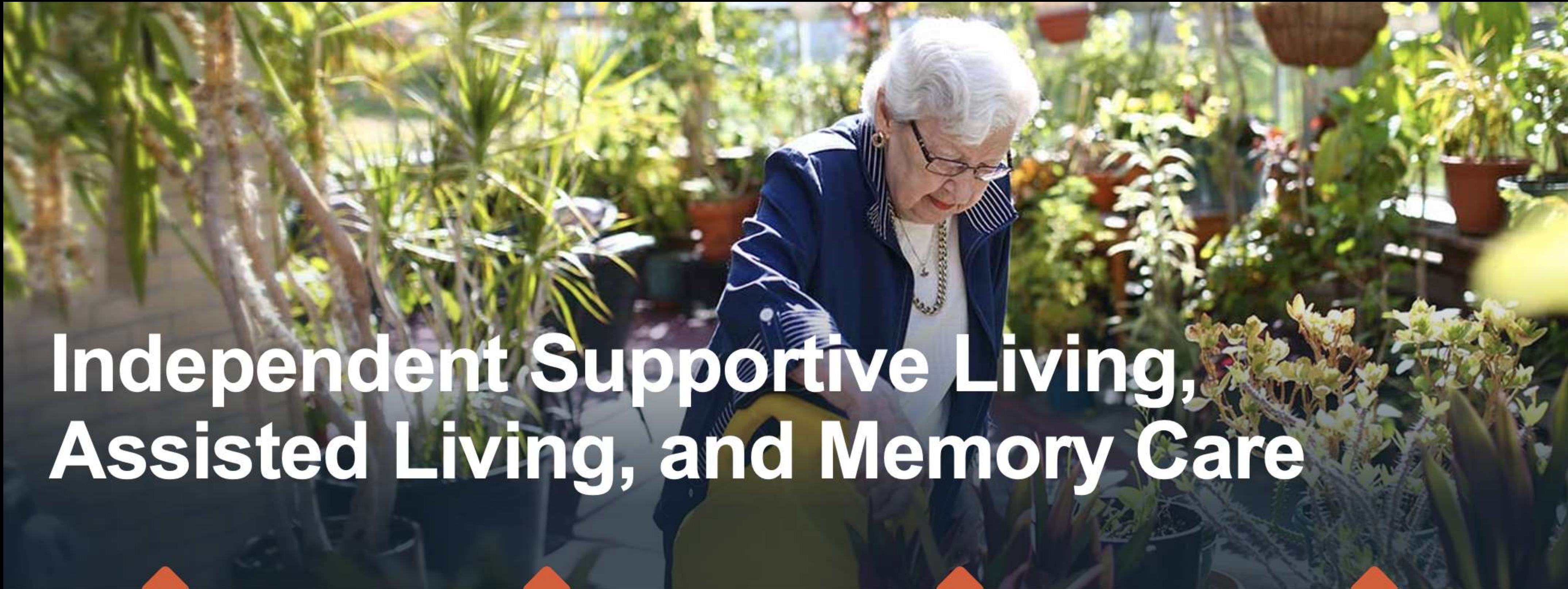
367,350 square
feet in living space

Provides long-term
care for the
medically complex

Dementia care and
behavioural support

across 7 floors

medically complex



Independent Supportive Living, Assisted Living, and Memory Care

192 rooms
across 11 floors

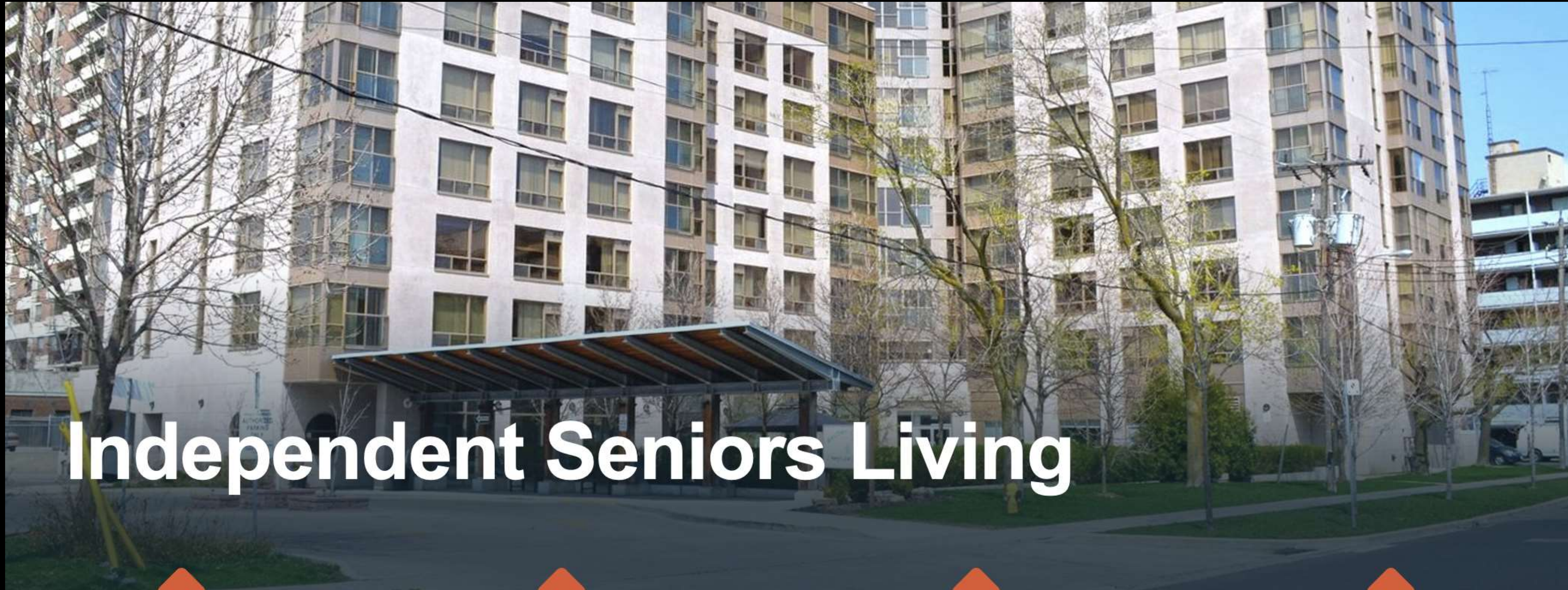
172,000 square
feet in living space

*Possibilities by
Baycrest™* memory
care, ADL assistance
and support

Health centre
staffed 24/7 with
geriatric nurses
and physicians

and support
care, ADL assistance

and physicians
geriatric nurses



Independent Seniors Living

241,065 square
feet in area

120 apartments
in a 9-floor high-
rise building

1-2 bedroom apartment-
style residential units
with full kitchen

Exclusively serves
older adults living
independently

rise building

with full kitchen

independently

Education and Training Technology at Baycrest



Apps



Tele-
education



Learning
Management
System (LMS)



eLearning 4.0
(next generation
training modules)



Virtual and
Augmented
Reality

Cognitive & Sensory
Neuroscience



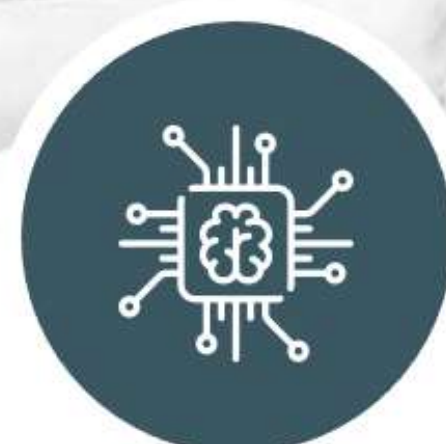
Aging and
Brain Health



Alzheimer's and
Related Dementias



The Baycrest **Rotman Research Institute** brings over
35 years of excellence, working with world-renowned
scientists in **5 key areas of research**



Neuroinformatics
& Computational
Neuroscience



Translational Research

Translational Research



ITAVON

Baycrest is ranked in the top 5% of all Canadian healthcare organizations for performance

and the #1 most Research-Intensive (over \$900K spent on research per scientist each year)



Baycrest's experience in **quality senior care** is brought to **new markets** around the world **through BGS**

Baycrest Global Solutions

International advisory and consultancy to advance senior care practice and standards

These **core mandates** drive our global mission:



Partnership

Advise international governments on senior care policies



Consulting

Shape the development of senior care



Development

Build international self-sustaining programs



Capacity Building

Provide education and training programs

An accelerator dedicated to improving the lives of older adults



**CENTRE FOR AGING
+ BRAIN HEALTH
INNOVATION**
Powered by Baycrest

Mission

To accelerate the development, validation, commercialization, dissemination and adoption of innovative products, services and best practices to support brain health and aging

Purpose Driven Focus Areas



Aging
at Home



Caregiver
Support



Care Coordination
& Navigation



Cognitive &
Mental Health



Financial Health
& Wellness

Aging
at Home

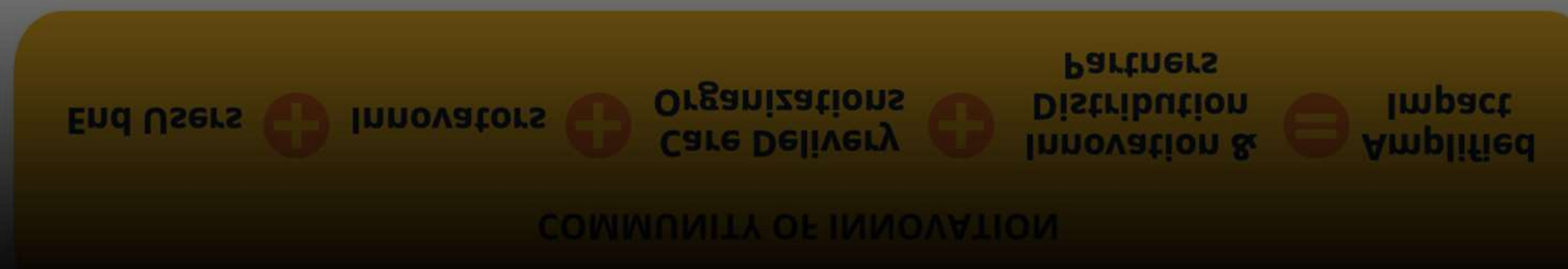
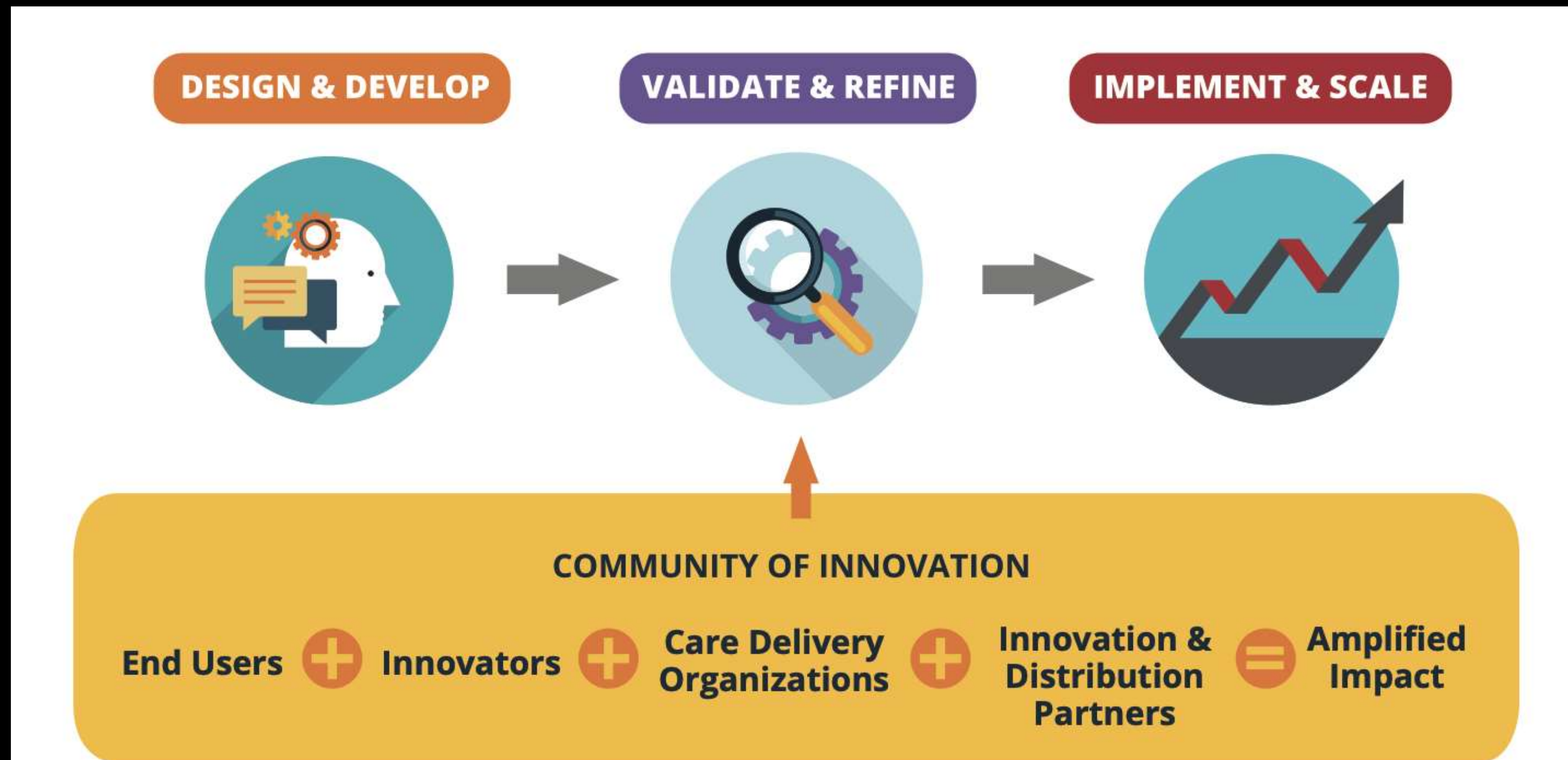
Caregiver
Support

Care Coordination
& Navigation

Cognitive &
Mental Health

Financial Health
& Wellness

CABHI: Spanning the entire innovation value chain



CABHI'S IMPACT TO DATE



359

PROJECTS LAUNCHED



\$58M+

IN JOBS CREATED OR
SUSTAINED



130+

UNIQUE TRIAL SITES

\$139M+

FUNDING DIRECTED TOWARDS ADVANCING
HEALTHCARE INNOVATIONS



20,500+

Clinicians Involved in
Innovation Projects



245,000+

People Reached Through CABHI-
Supported Educational Events,
Information-Sharing Activities,
and Communications



1,450+

Partnerships and
Collaborations Across
CABHI's Network

80,500+

Older Adults and
Caregivers Engaged in
Innovation Projects



3,650+

High Qualified Personnel
(HQP) Working on CABHI
Projects

\$62M+

FUNDING LEVERED EXTERNAL TO
GOVERNMENT CONTRIBUTIONS

\$529M+

SECURED INVESTMENTS BY CABHI INNOVATORS AND
COMPANIES EXTERNAL TO INNOVATION PROJECTS

UNIQUE SOLUTIONS FUNDED BY CABHI

283

Supported

182

Evaluated

130

Introduced



**Over 700,000 Canadians currently live
with dementia - expected to climb to 1.4
million by 2031.**

Source: World Health Organization

Source: World Health Organization

million by 2031.





Costs for the direct care of Canadian dementia patients is \$10 billion. Combined direct and indirect costs already exceed \$30 billion.

Source: World Health Organization

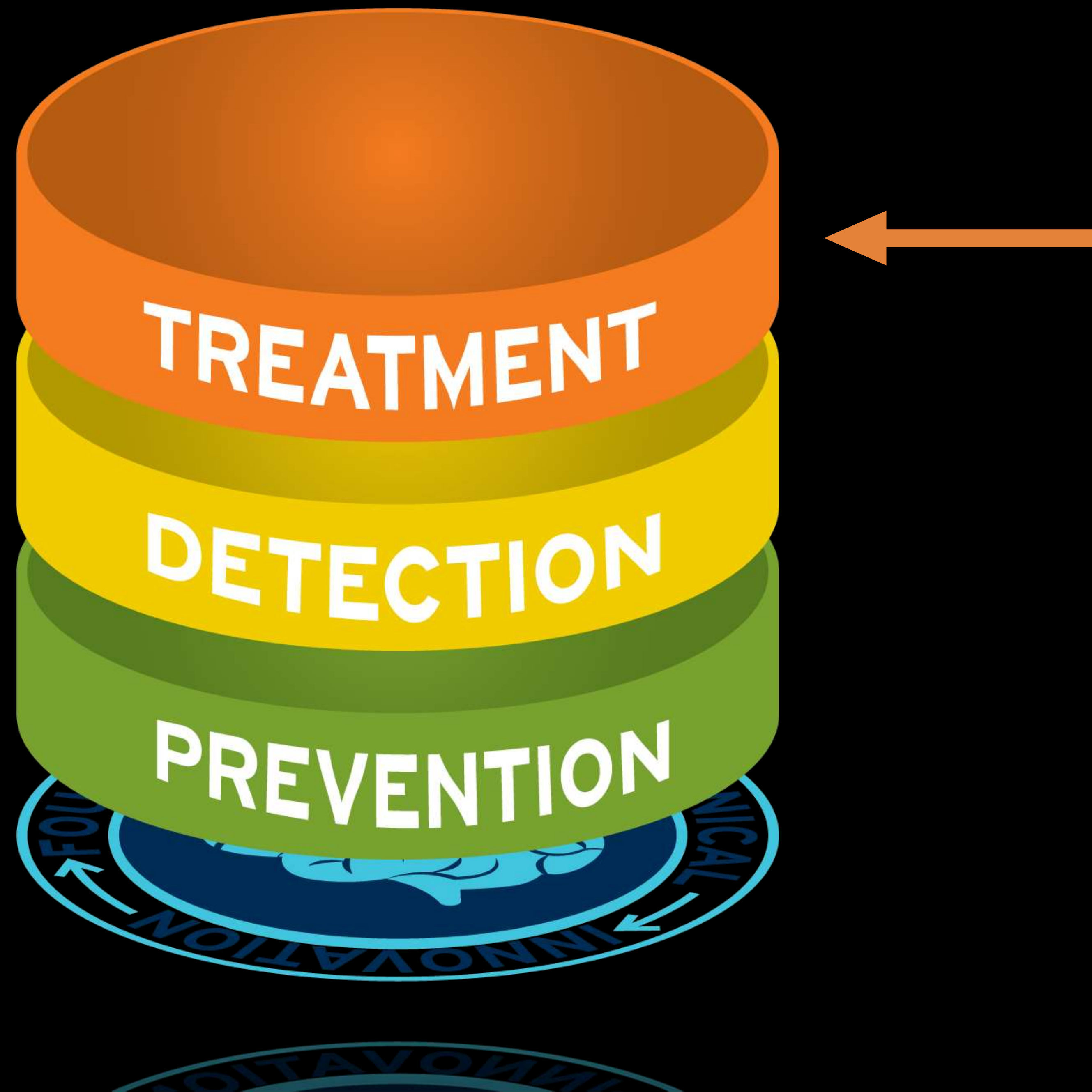
Source: World Health Organization



Need a new approach to dementia

Remote, virtual, mobile, and AI-powered solutions are more important than ever

Must focus on prevention and early detection, as well as treatment and care





Baycrest

@HOME

Current Offerings

Support for caregivers.

Baycrest@Home helps families on their caregiving journey, building capacity and providing support.

- Expert advice and counselling
- Safety monitoring
- Information and education
- Connect with peers
- Self-care support

Baycrest
@HOME

HOWE
Baycrest

Activities for older adults.

Baycrest@Home provides older adults with a variety of dementia-inclusive virtual social and therapeutic programming.

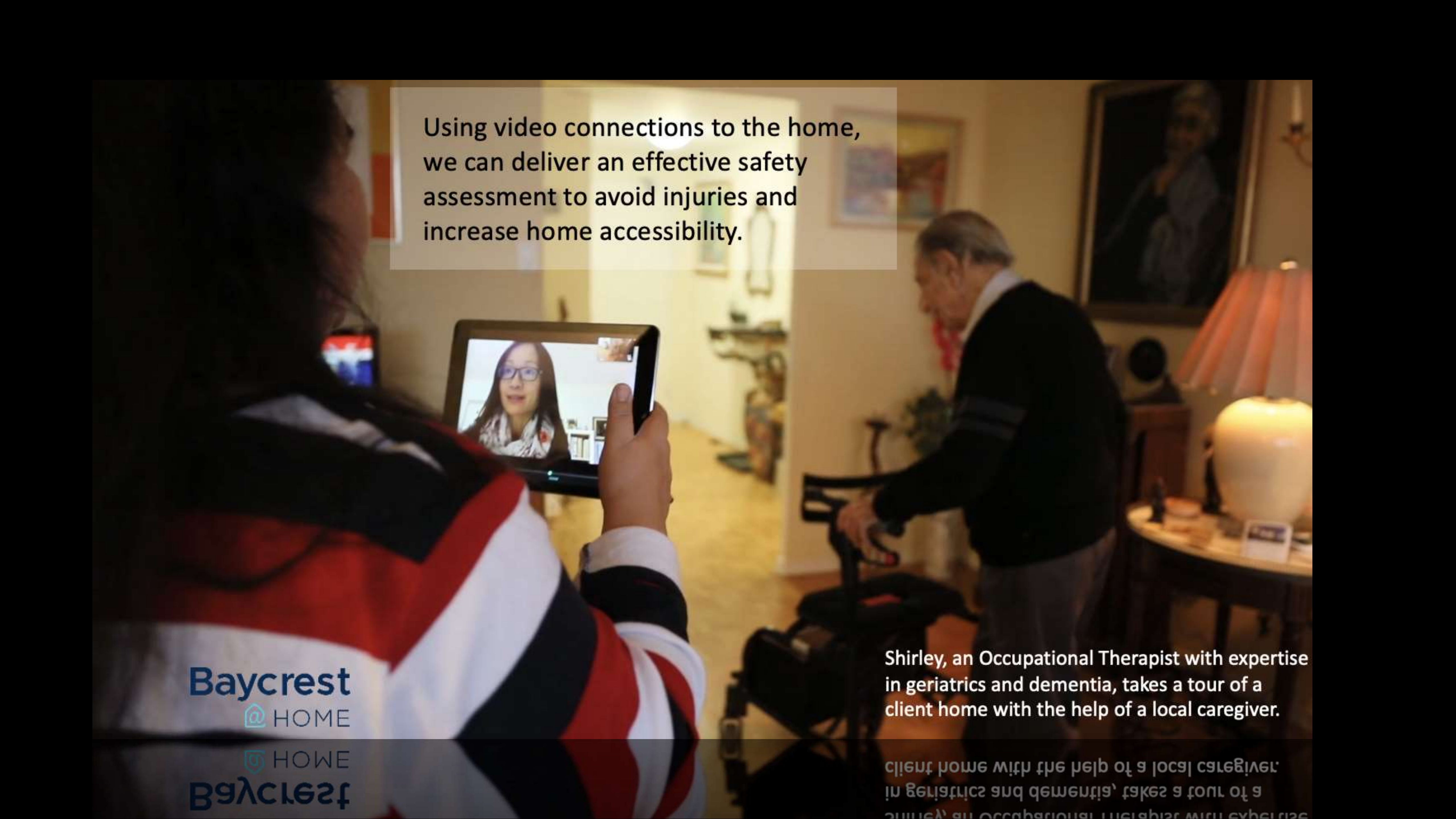
- Live and interactive facilitated sessions
- On-demand recorded videos
 - Creative arts
 - Clubs and conversation
 - Fun and games
 - Community and religion
 - Family and friends

Clients start their day with a variety of live, interactive virtual programs.

Baycrest@Home provides over 30 hours of live programs each week.



Patti leads a daily chair exercise class, "putting the fun in functional movement."



Using video connections to the home, we can deliver an effective safety assessment to avoid injuries and increase home accessibility.

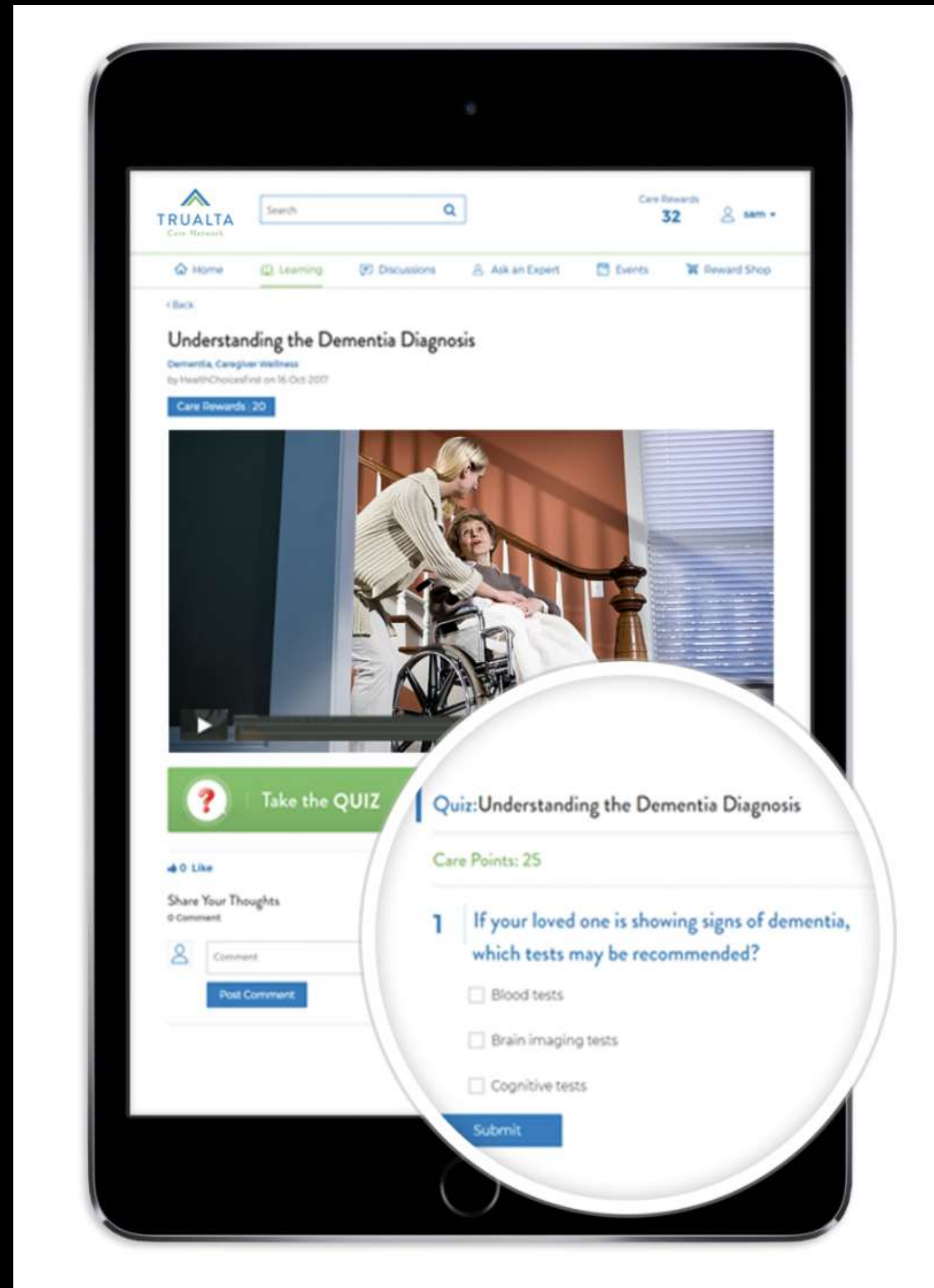
Baycrest
@HOME

HOWE
Baycrest

Shirley, an Occupational Therapist with expertise in geriatrics and dementia, takes a tour of a client home with the help of a local caregiver.

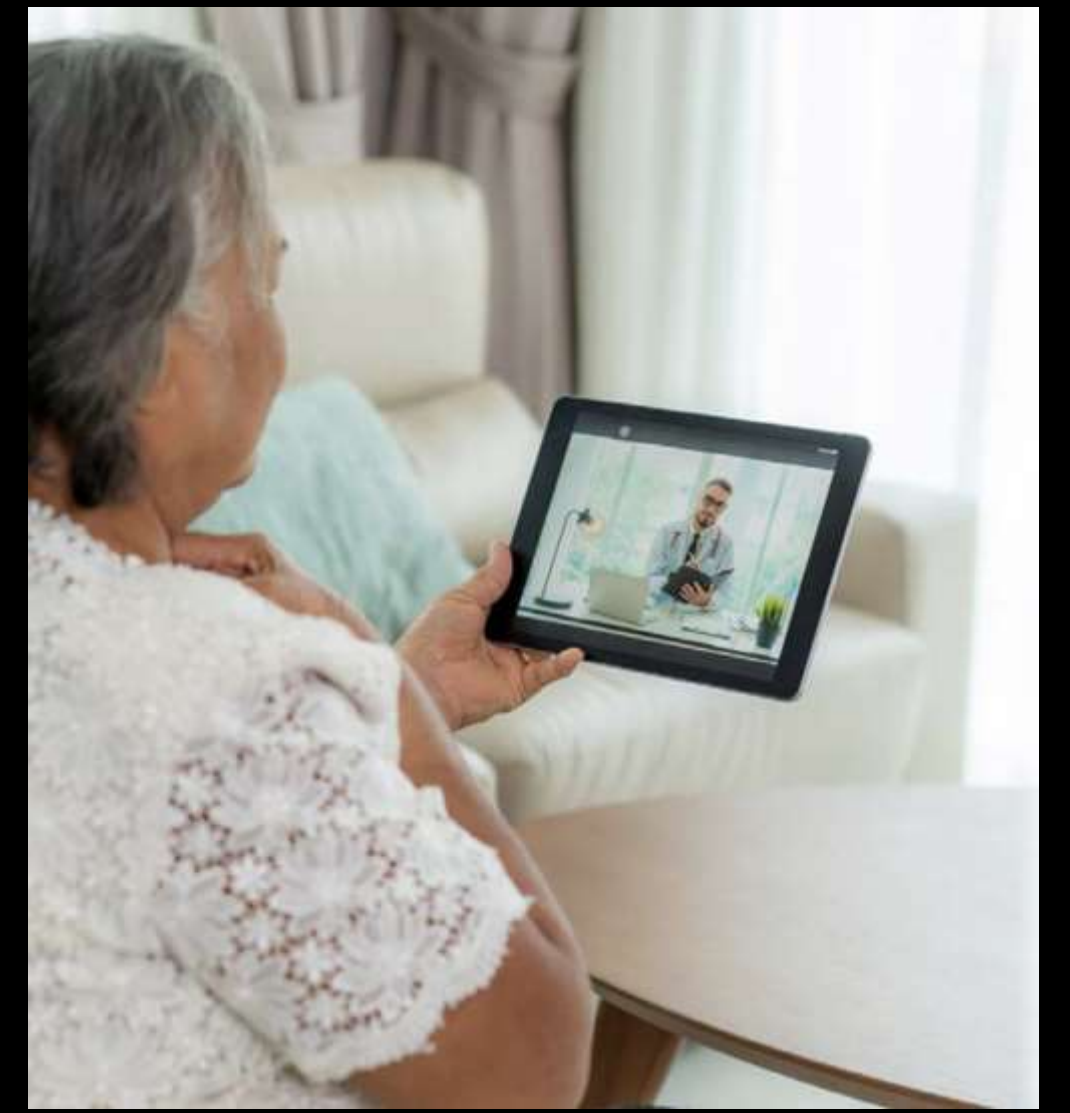
client home with the help of a local caregiver. Shirley, an Occupational Therapist with expertise in geriatrics and dementia, takes a tour of a

Home Caregiver Training



Trualta

Virtual Care



Baycrest's Dr. Morris Freedman, aka
"The (virtual) dementia whisperer"

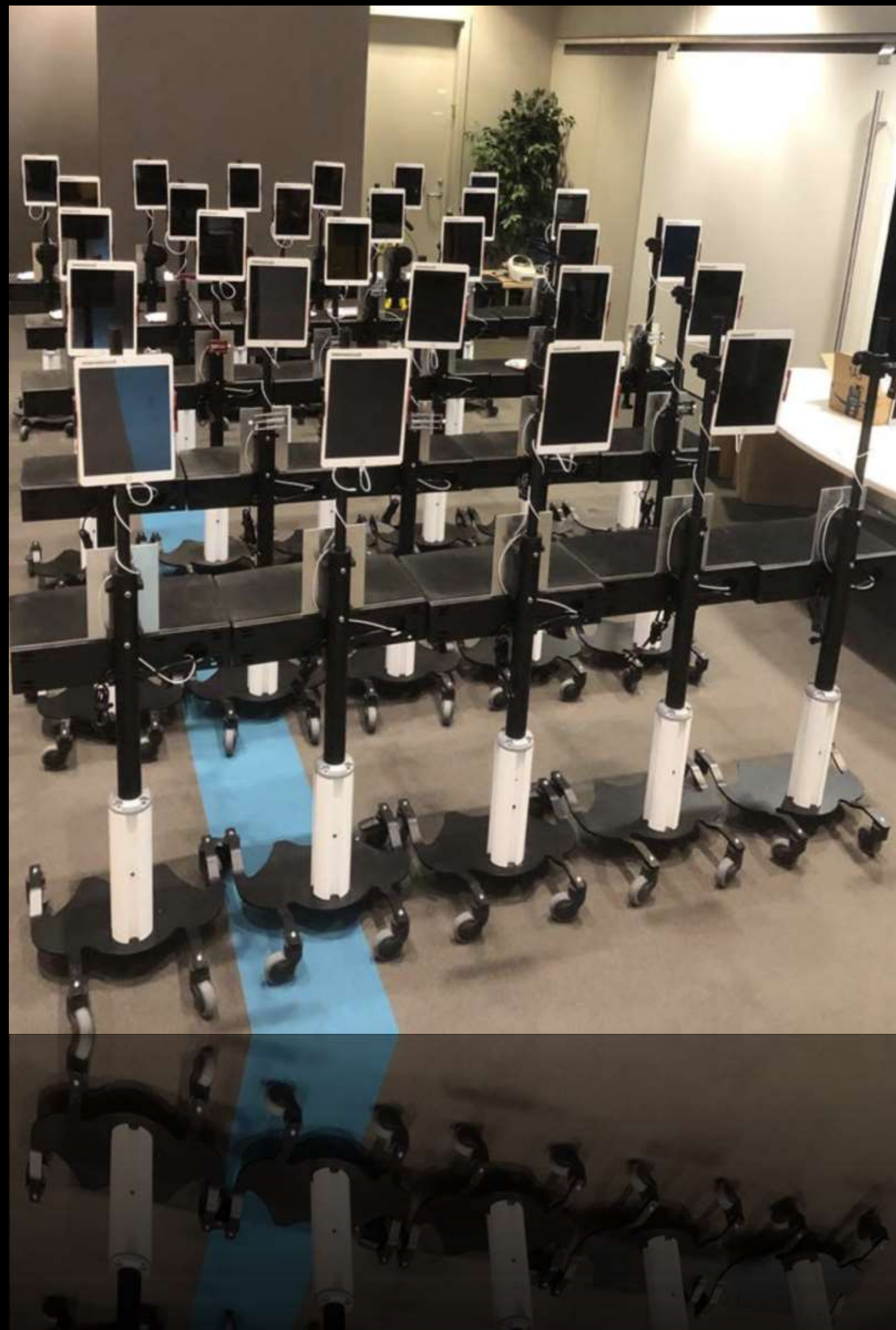
Novel Virtual Behavioural Medicine program
AI-driven Triageing

Virtual Reality



SilicoLabs

eVISITS



Baycrest Innovation Office

ROBOT PETS



Paro



Joy for All

VIRTUAL ENGAGEMENT



MyndVR

VIRTUAL ENGAGEMENT + EXERCISE



Motiview

PERSONALIZED ENGAGEMENT

Hobbies

Reading X

Painting X

X

▼


Michael has consistently attended Arts & Crafts

Very likely to attend

👁️

🎲

📺



🦽 Wheelchair

🏠 + Skilled Nursing

welbi



POSSIBILITIES

by **Baycrest**TM

Framework: My Possibilities



I am a unique person with my own narrative. Get to know me and understand how I want to live



I want everyday to be filled with purpose, meaning and possibilities



I want to feel as healthy as can so I can be my best and live the way I choose



I want to feel connected to others and be part of a community

“My Possibilities” represent the voices and desires of individuals receiving care and supports through Possibilities by Baycrest™. They will be explored with each individual and family to inform and co-develop personalized Possibilities Plan

and family to inform and co-develop personalized Possibilities Plan
supports through Possibilities by Baycrest™. They will be explored with each individual
“My Possibilities” represent the voices and desires of individuals receiving care and

Possibilities by Baycrest™ framework

PRINCIPLE 1
We honour the whole person

PRINCIPLE 2
We believe in discovery and embed our neuroscience expertise into what we do



AI SUPPORTED CARE



SafelyYou

Possibilities by
Baycrest™
Framework

Possibilities by
Baycrest™
Tools

Possibilities
Staff
Competencies,
Roles &
Recruitment

Possibilities
Learning &
Growth
Experience

Research,
Technology &
Environmental
Design
Solutions

Possibilities
Evaluation
Framework




POSSIBILITIES
by Baycrest™

POSSIBILITIES
by Baycrest™

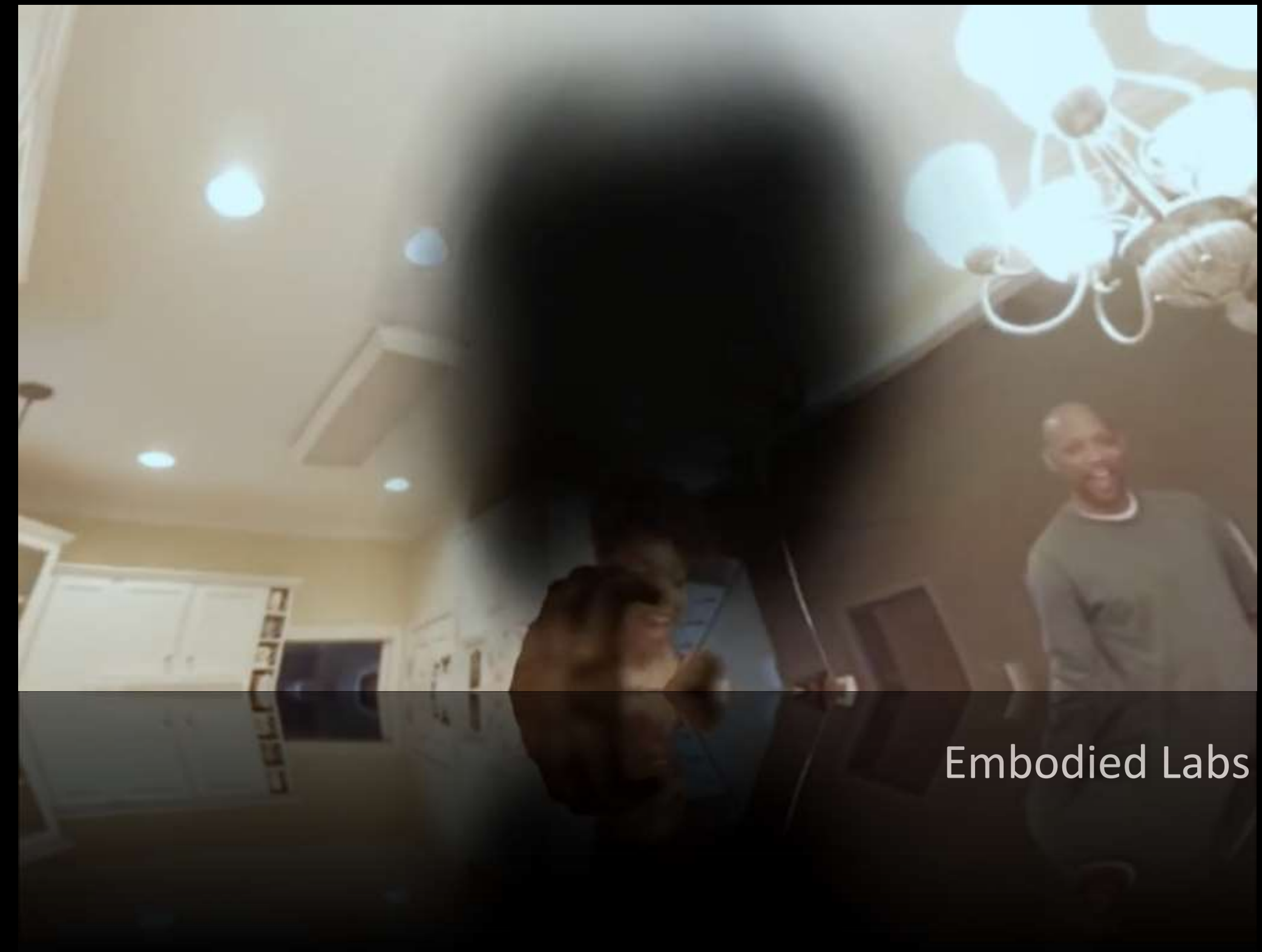

Virtual Training - Smart Games



The Learning Inter-Professionally Healthcare Accelerator is a simulation, coaching and community platform that provides a virtual space with simulated cases and a serious educational game for PSWs and nurses in the long-term care sector and students enrolled in healthcare programs to practice caring for virtual residents.

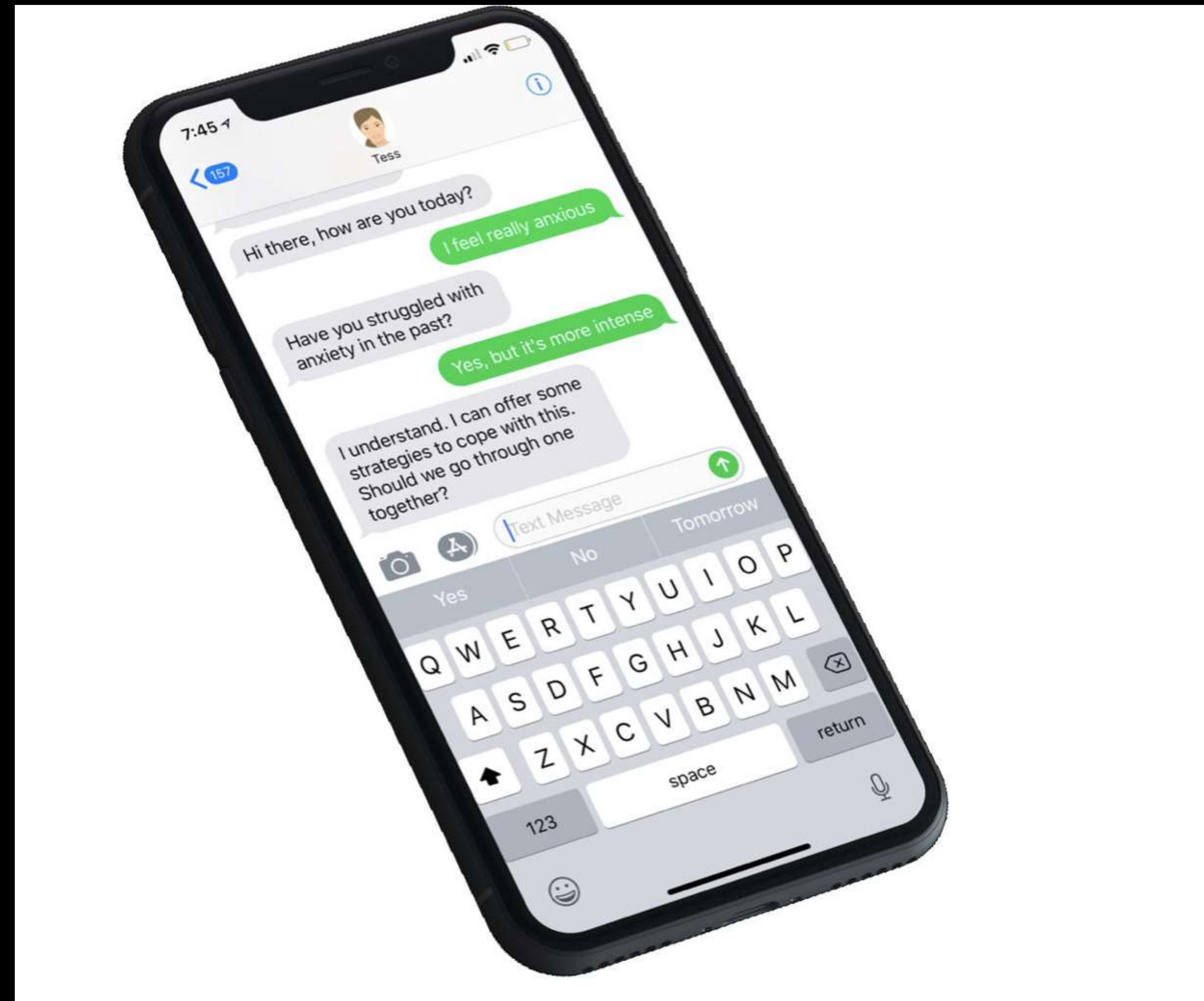
LIPHA: Learning InterProfessionally Healthcare Accelerator

Virtual Training - Empathy & Understanding

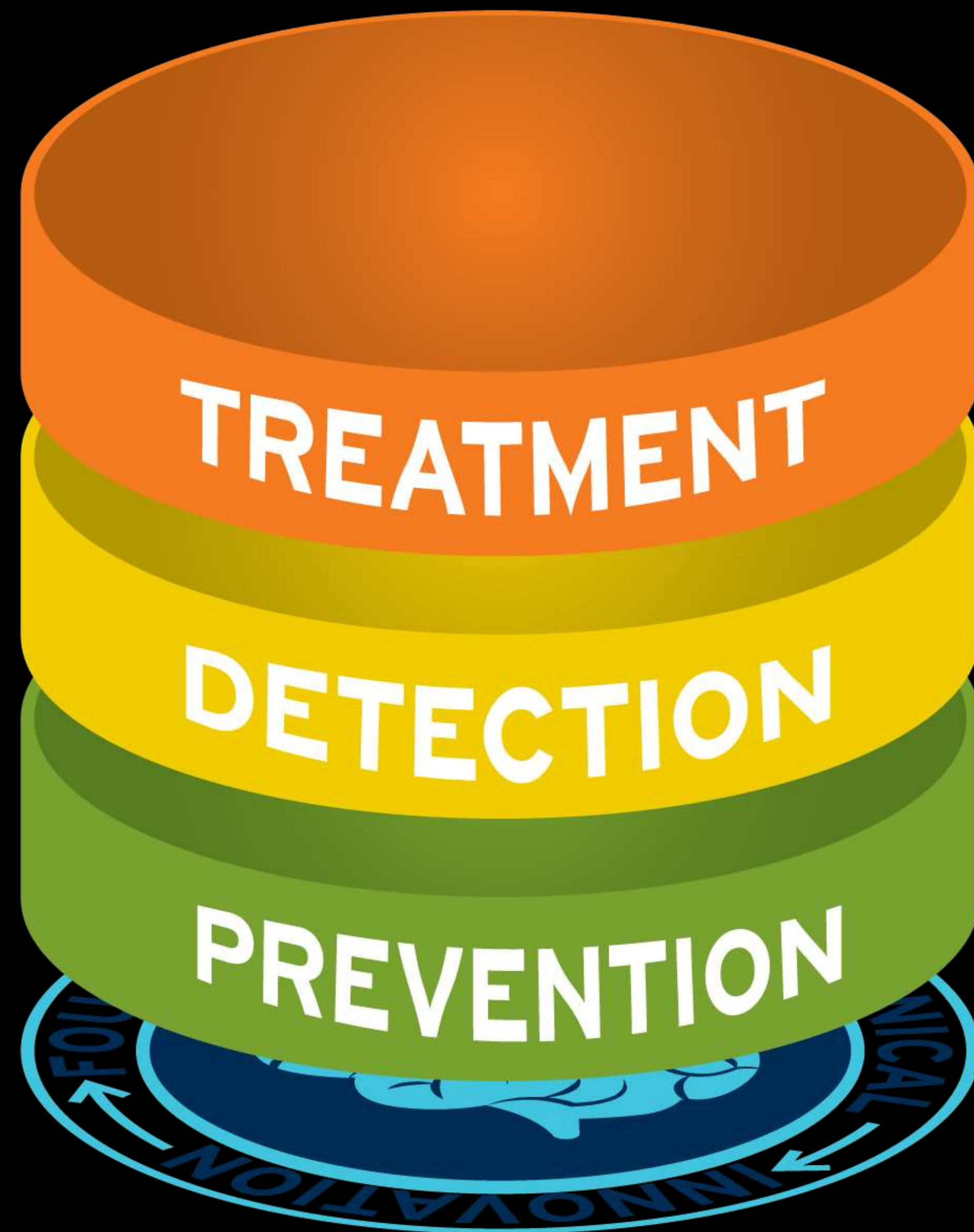


Embodied Labs

Care Worker/ Care Giver Support



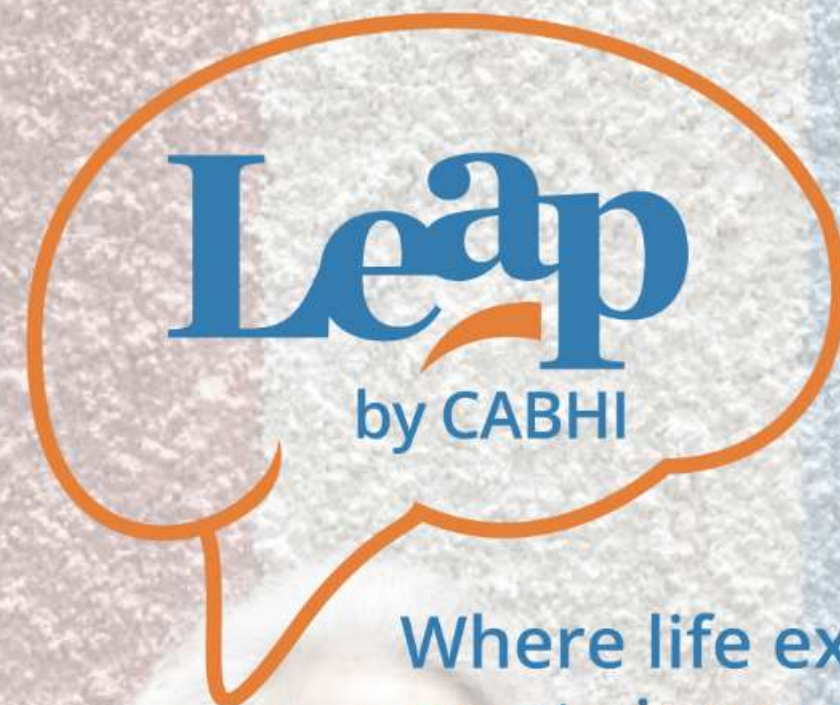
X2AI - Tess, Mental Health Chatbot



Innovation is Key
to Enable Better Provision of Dementia Care

End-User Engagement is Key
to Enable Innovation

Leap: CABHI's New End-User Engagement Platform



Where life experience
meets innovation

Join our virtual
innovation community
for older adults
and caregivers.



Connect +
share experiences



Learn about
new technologies



Provide insights
to innovators

<https://www.cabhi.com/leap/>



LIVE LONGER. LIVE BETTER. LIVE MORE.

Changing
the journey of
aging worldwide



Thank you. 多謝.