

THE CENTRE FOR AGING +  
BRAIN HEALTH INNOVATION

# SOLUTIONS CATALOGUE

DISCOVER + ADOPT PROGRAM



CENTRE FOR AGING  
+ BRAIN HEALTH  
INNOVATION  
Powered by Baycrest



Discover and  
Adopt Program





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# About this Catalogue



This catalogue presents the pain points identified by various healthcare organizations, along with the targeted innovations trialled through CABHI's Discover + Adopt program to address these challenges.

## **What is the Discover and Adopt program?**

CABHI's Discover + Adopt program supports healthcare organizations (e.g., long-term care homes, hospitals, home healthcare and community-based organizations etc.) to build their skills and receptivity to adopt innovation and enhance the culture of innovation within their organizations.

## **Who is the intended audience for this catalogue?**

This catalogue will be useful for anyone involved in innovation and implementation of solutions to solve healthcare pain points, including:

- healthcare organization leaders;
- staff in healthcare organizations looking to find innovations; and
- innovators looking to design solutions for healthcare organizations.

## **What is included in the catalogue?**

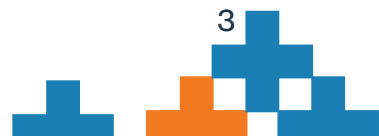
This catalogue describes findings from the first two cohorts of the D+A program. It will be updated with learnings and solutions from future cohorts.

The content is organized by pain points, with each pain point followed by the solutions trialled to address it. Each solution includes a description, the name of the organization that tested it, and key learnings presented as indicators (including factors such as affordability, ease of integration, etc.).

This was prepared by CABHI with feedback from organizations and innovators participating in the D+A program.

## **Questions?**

Contact Johan Chen, Senior Project Manager at CABHI, at [jchen@cabhi.com](mailto:jchen@cabhi.com).



# Rating Criteria

The table below represents criteria that decision-makers may use when considering whether a solution may be a good fit for their organization.

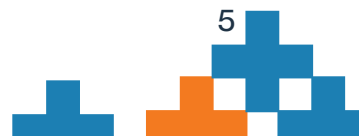
The criteria reflect important factors such as solution affordability, complexity, and how well the solution may integrate in existing workflows. By reviewing the criteria, organizations can get a better sense of how the solution might perform in real-world settings and determine how it may align with their priorities and capacity.

| Indicator  | Legend   |
|--|--|
| <b>Affordability</b><br>How budget-friendly was the solution, considering both initial and ongoing costs?  | \$<br>\$ \$<br>\$ \$ \$  |
| <b>Innovator's Adaptability + Experience</b><br>How well did the innovator demonstrate experience and adaptability in tailoring the solution to meet the organization's needs? | ★<br>★ ★<br>★ ★ ★  |
| <b>Technology Level</b><br>How simple or complex was the solution? (simple to complex)   | <br><br>                                |
| <b>Canadian-Made</b><br>Was this solution developed in Canada?   |   |
| <b>Regulatory Compliance</b><br>Did this solution meet the necessary health, safety, and privacy standards?  | ✓<br>✓ ✓<br>✓ ✓ ✓  |
| <b>Ease of Integration</b><br>How easily did the solution work with the organization's existing systems and processes? (easy to difficult)                                     | <br><br>                                |
| <b>Solution Type</b><br>Was this solution a product, service, or software?   |  = Product<br> = Service<br> = Software |



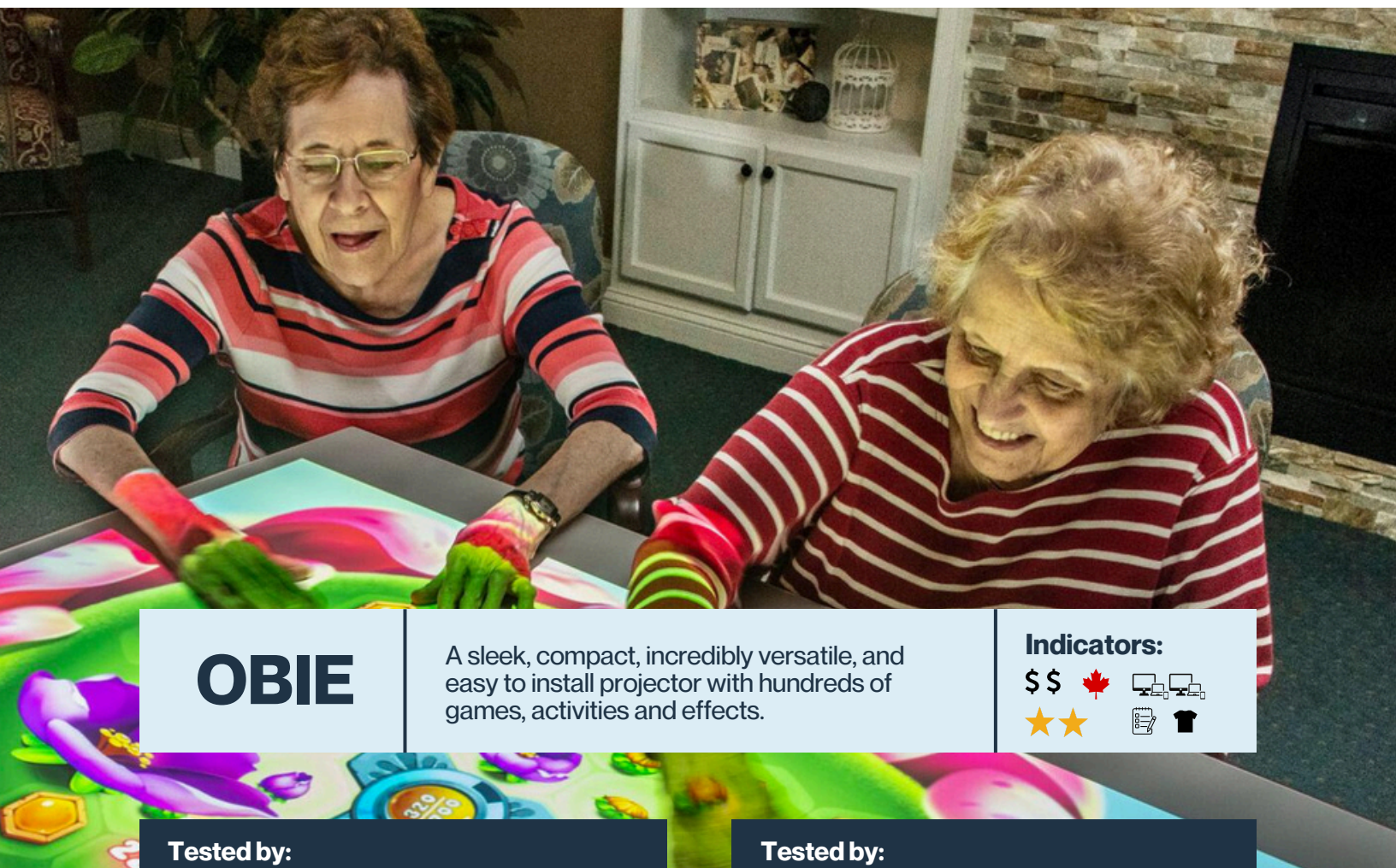
# Pain Point: Cognitive + Mental Health

Pain point: need to find ways to enhance social engagement, improve staff communication and care, strengthen mental health support in care settings, and expand community support for individuals with cognitive decline and dementia.





# Solutions for Enhancing Social Engagement and Leisure for Cognitive-Impaired LTC Residents



## OBIE

A sleek, compact, incredibly versatile, and easy to install projector with hundreds of games, activities and effects.

### Indicators:



**Tested by:**  
**Integrated University Health and  
Social Services Centre Nord**

#### Organization Feedback:

- Promotes socialization and dynamic interactions
- Interactive games engage residents
- Enhances social interactions among residents and caregivers
- Setup and calibration can be tricky

**Tested by:**  
**Shannex**

#### Organization Feedback:

- Back-end data analysis allowed for usage tracking
- Innovator support resolved technical issues and prevented negative impacts on outcomes
- Opportunity for innovator to provide user-friendly resources





**Tested by:**  
**Groupe Sante Sedna**

**Organization Feedback:**

- Highly adaptable and customizable
- Opportunity for enhanced interoperability

**Welbi**

A solution that provides assessment tools and real-time analytics to help empower recreation teams to gain a comprehensive understanding of their residents.

**Indicators:**



**Tested by:**  
**Baycrest**

**Organization Feedback:**

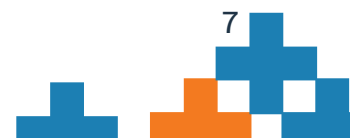
- Achieved goal of meaningful, spontaneous engagement for those with cognitive impairments
- Device was intuitive and features were accessible to residents with varying abilities
- Requires workflow adjustments to integrate



**INMU**

A multisensory interactive cushion and sensory stimulation tool that combines music and tactile simulation.

**Indicators:**





**Tested by:**  
**St. Joseph's Healthcare Hamilton**

**Organization Feedback:**

- Highly adaptable and customizable
- Opportunity for enhanced interoperability

## Social-Ability

The Happiness Programme uses interactive light technology to provide meaningful activities for residents and patients in care homes and care settings. The interactive projector displays onto a surface and as hands, arms, or feet move through the light, the projected game responds

**Indicators:**



**Tested by:**  
**Perley Health**

**Organization Feedback:**

- Enhanced resident interaction, engagement, and participation
- Innovator provided high-quality training materials and flexible with training sessions schedules and options



## Tovertafel –The Magic Table

Tovertafel's projector and interactive games are specifically designed for seniors living with dementia and can be played individually or in a larger group. They are proven to be effective at physical, cognitive, social, and sensory levels.

**Indicators:**





# Solutions for Enhancing Staff Communication and Care for Clients with Cognitive Decline

## Kaleidoscope XR

Caregiver VR aims to improve the lives of persons with dementia and aging challenges through virtual reality and augmented reality. The platform enables live role-playing simulations between trainer and trainee acting as either caregiver or resident in front of a virtual classroom.

### Indicators:



### Tested by: Scarborough Centre for Healthy Communities

#### Organization Feedback:

- Strong innovator support and availability
- Enhanced staff empathy and clinical skills
- Updated required devices to be turned on in advance

### Tested by: Oak Valley Health

#### Organization Feedback:

- VR experience evoked strong emotions and empathy through simulations
- Technical issues within environment with avatars

# Solutions for Improving Mental Health Support in Continuing Care Settings



## Muse by Interaxon

'Mindful Muse Care,' leverages the Muse headband, enabling continuous and detailed monitoring of brain activity. By integrating therapeutic neuro-feedback and mindfulness techniques, it is designed to alleviate stress, enhance mood and cognitive functions, and improve sleep quality.

### Indicators:



**Tested by:**  
**The Brenda Strafford Foundation**

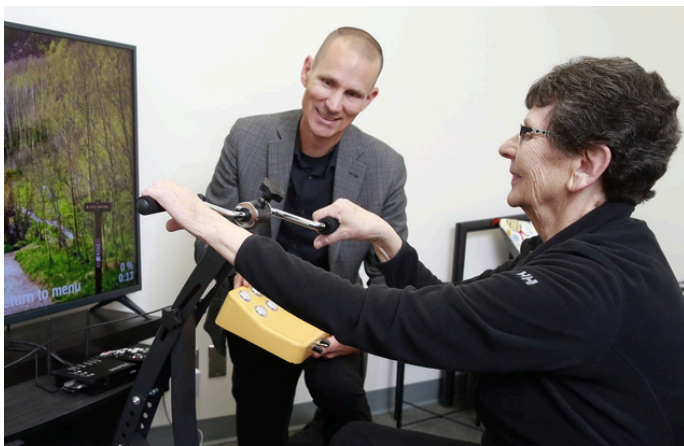
### Organization Feedback:

- User-friendly application
- Provided meaningful relaxation and stress reduction opportunities for staff
- Muse meditation sessions fostered calmness and emotional relief for residents
- Lack of independent use by residents due to accessibility issues
- Muse demonstrated high potential but needs accessibility improvements such as multilingual support and independent-use adaptations





# Solutions for Strengthening Community Support for Persons with Dementia



**Tested by:**  
**Circle of Care**

Organization Feedback:

- Enhanced interest in engagement and participation from clients
- Opportunity for more videos, scenery, and cognitive simulation games
- Technical issues when collecting data

## Centivizer

Tour the world while getting seated exercise with hand and foot pedals or a cross-body trainer. If you stop exercising the video stops!

**Indicators:** 🇨🇦 🏠  
\$\$ 💻 ✅✅✅

**Tested by:**  
**VHA Home Healthcare**

Organization Feedback:

- User-friendly web and smartphone applications
- Opportunity for improvements in accuracy, reliability, and false-alerts detection



## Pontosense

A proprietary mmWave RADAR solution measures vitals, alongside fall detection, with nearly 100% accuracy in real-time. The sensor's ability to achieve medical-grade precision through micromovements ensures privacy and peace of mind, particularly in sensitive spaces such as bathrooms and bedrooms.

**Indicators:**

\$ 🇨🇦 💻 ★  
✅✅✅ 📄 📄 🏠



**Grace**  
Toronto Grace Health Centre

## Remote Care Monitoring Program

The RCM program is sponsored and operated by the Toronto Grace Health Centre (TGHC).

The program uses a broad range of technology to support clients like yourself in remaining safe at home.

### Toronto Grace Remote Care Monitoring System

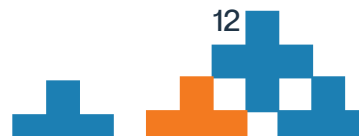
#### Indicators:



Toronto Grace Health Centre's (TGHC) Remote Care Monitoring (RCM) program utilizes technological advancements to provide comprehensive virtual care encompassing both medical and non-medical needs. The RCM program provides a holistic approach, using both medical and non-medical monitoring technologies to effectively address a wide spectrum of in-home care requirements. From mitigating slips and falls to monitoring vital signs, preventing off-premises wandering and even assisting with basic daily activities of living, such as taking one's medications. RCM's triage system, comprehensive care planning, and diligent case management, function cohesively to ensure 24/7 accessibility to a well-coordinated multi-sectoral care team dedicated to promptly addressing client's needs. Alerts from the RCM devices are sent directly to the TGHC 24/7 call centre, where needs can be escalated accordingly.

**Tested by: Baycrest Health Sciences**

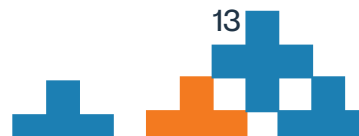
**Tested by: Unity Health Toronto**





# Pain Point: Quality of Care + Healthcare Delivery

Pain point: need to find ways to streamline communication, coordinate community care, and enhance nursing skills for staff in long-term care and retirement homes.



# Solutions for Streamlining Communication and Coordinating Care in Community



**Tested by:**  
**Right at Home Canada**

**Organization Feedback:**

- Fully customized app from scratch

## Encapture

A comprehensive mobile app platform that helps home care agencies streamline operations, retain their workforce through enhanced caregiver engagement, and provide an exceptional client experience.

**Indicators:**



# Solutions for Enhancing Nursing Skills Training for LTC and Retirement Staff

**Tested by:**  
**Schlegel Villages**

**Organization Feedback:**

- High-quality visuals and resolution provided realistic and immersive VR experience
- Scenarios were set in an acute care environment and not reflecting senior living sector



## UbiSim by Labster

UbiSim is a leading virtual reality training provider for nursing programs. Simulations provide lifelike, safe practice, boosting skills and confidence for clinical readiness.

**Indicators:**





# Pain Point: Quality of Life + Client Experience

Pain point: need to find ways to prevent pressure injuries and falls, improve pain assessment, and enhance electronic health system efficiency in long-term care.





# Solutions for Preventing Pressure Injuries and Falls in LTC



**ESPRIT-AI.COM**  
INVISIBLE. DEMENTIA. CARE.

## Esprit-AI Sense

Esprit-ai Sense™ acts as an invisible caregiver, silently observing, alerting, and predicting when help is needed. Our technology is camera-free and minimally invasive, providing seniors with the dignity they deserve. Our smart sensors connect to sophisticated software to alert for help and provide all the insights needed for the best care possible. This includes a cloud-based AI system that drives a web dashboard, mobile apps, SMS notifications, reports, analytics, and integration with your nurse call system.

### Indicators:



### Tested by: Bruyere Health

#### Organization Feedback:

- Device provided real-time monitoring
- User-friendly interface
- Opportunity to enhance false alerts and Wi-Fi connectivity issues

# Solutions for Improving Pain Assessment of LTC Residents



## PainCheck

PainChek® combines AI-driven analysis with user-guided features to accurately and consistently identify pain, creating personalised pain profiles that deliver improved care outcomes. PainChek® assesses 42 pain-related indicators across six key areas: Face, Voice, Movement, Behaviour, Activity, and Body. In addition, the app includes a Numeric Rating Scale (NRS) for those who can reliably self-report their pain. This thorough approach generates a detailed, accurate pain profile for every individual, allowing for personalised treatment.

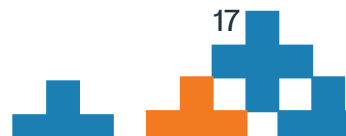
### Indicators:



### Tested by: Perley Health

#### Organization Feedback:

- Excellent support and communication from innovator
- Provided tracking for implementation progress, training resources, and software adaptations on as needed basis
- Opportunity for enhanced interoperability to integrate better with current workflows



# Solutions for Enhancing Electronic Health System Efficiency for Informed Clinical Decision Making

# PointClickCare®

## PointClickCare

PointClickCare is the #1 cloud-based healthcare software provider helping long-term and post-acute care (LTPAC) providers navigate the new realities of care.

**Indicators:**   
\$\$\$     
     

**Tested by:**  
**Northwood Care**

### Organization Feedback:

- Excellent data summaries through the use of performance insights
- Enable grouping and identification of key indicators
- Required deeper staff analysis for flagged falls which took up staff time to make data-driven decisions



# Solutions for Enhancing Operational Efficiency



## Pegasus Medical Storage

Indicators: \$ \$ ★ ★



Pegasus Medical is a worldwide leader in providing modular storage solutions for the medical industry and today's leading healthcare organizations.

**Tested by:**  
**Bruyere Health**

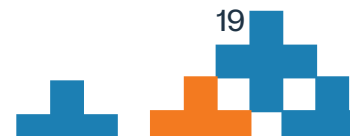
## Toronto Grace Remote Care Monitoring System

Indicators: 🇨🇦 👥



Toronto Grace Health Centre's (TGHC) Remote Care Monitoring (RCM) program utilizes technological advancements to provide comprehensive virtual care encompassing both medical and non-medical needs. The RCM program provides a holistic approach, using both medical and non-medical monitoring technologies to effectively address a wide spectrum of in-home care requirements. From mitigating slips and falls to monitoring vital signs, preventing off-premises wandering and even assisting with basic daily activities of living, such as taking one's medications.

**Tested by:**  
**Hamilton Health Sciences**



# Pain Point: Clinical Skills Training

Pain point: need to find ways to improve patient transfers, mealtime delivery, and the shower experience for long-term care residents with cognitive decline.



# Solutions for Improving Mealtime Delivery in LTC



## Tested by: Schlegel Villages

### Organization Feedback:

- Excellent mealtime engagement opportunity
- Increased quality of mealtimes for residents
- Opportunity to improve robot mobility over different surfaces

## Pudu Robotics - Bella Bot

BellaBot is the latest delivery robot by Pudu, inheriting outstanding characteristics of the previous generation while being endowed with superior human-robot interaction capabilities. It features an innovative bionic design, cute appearance, multi-modal interaction, and provides users with an unprecedented food delivery experience.

### Indicators:



## Tested by: York Care Centre - CIRA

### Organization Feedback:

- Increased quality of meal and dining experience
- Allowed higher level of autonomy and meal customization options
- Cart was larger than anticipated



## SuzyQ Hot Food Cart

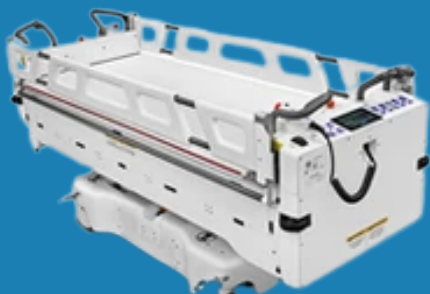
The SuzyQ cart System provides “resident-focused” meals. This effective meal delivery system has been used in all types of care facilities throughout North America since 1998.

### Indicators:





# Solutions for Enhancing Patient Transfer Experience and Efficiency



**Tested by:**  
**St. Joseph's Health Care London**

Organization Feedback:

- Excellent training provided by innovator
- Increased quality of care for patients
- Staff perceived the device as “too good to be true”

## Able Innovations

The ALTA Platform® allows healthcare workers to do more with less while protecting them from career-ending injuries. Equipped with an array of sensors, and an user-friendly graphical interface, the ALTA ensures utmost safety, while being easy-to-use.

**Indicators:** \$\$\$ 🏠



# Solutions for Enhancing Shower Experience for LTC Residents with Cognitive Decline

## MEDN POMO

MEDN is an ecosystem of personal hygiene solutions in order to improve the experience of seniors with loss of autonomy. POMO is a handheld shower head adapted and developed specifically to improve the comfort of the older adult et utilizes their remaining capabilities.

**Indicators:**



**Tested by: Villa Ste-Rose**

Organization Feedback:

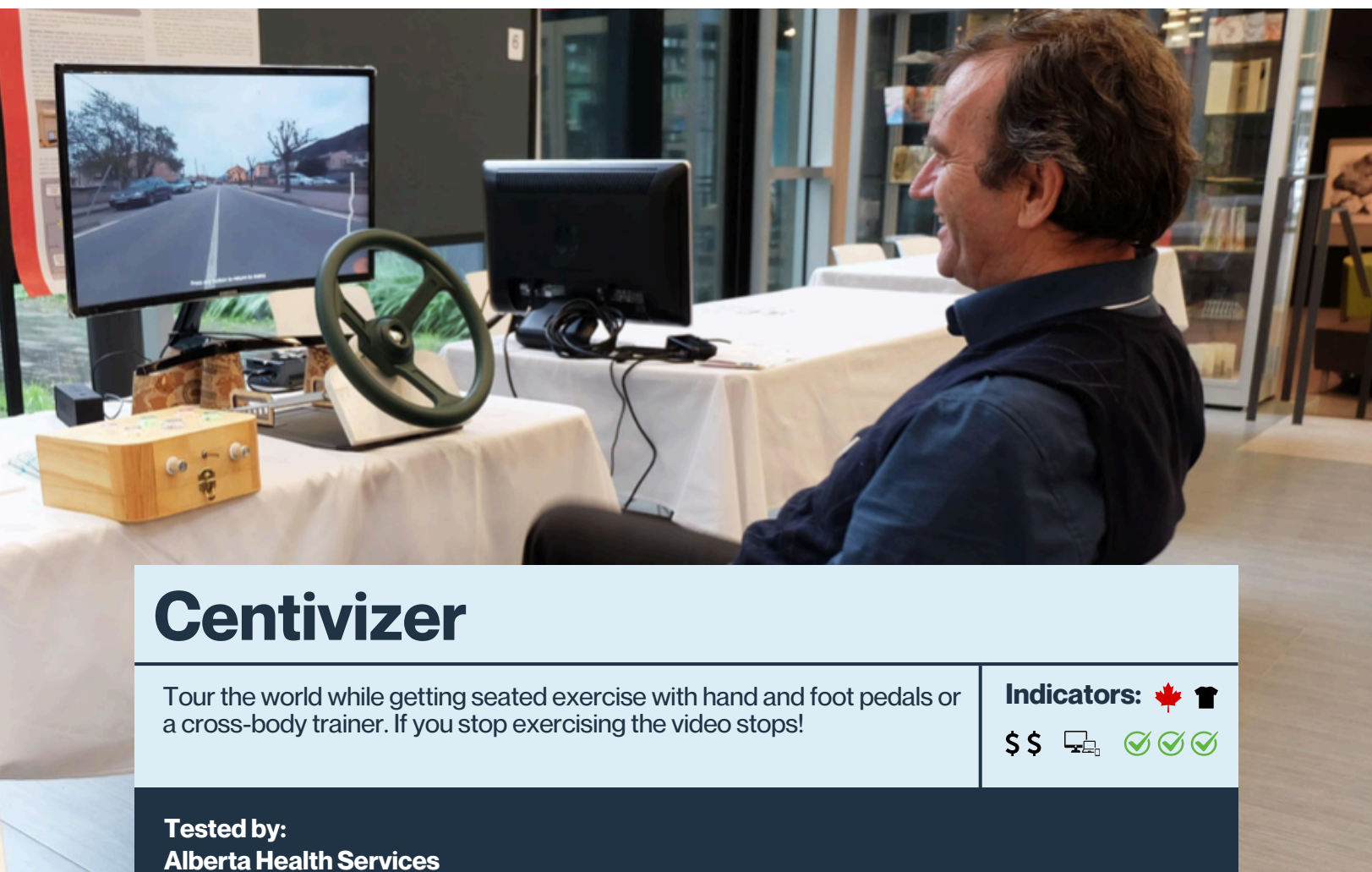
- Ergonomic design of showerhead allowed for ease of use and reduction in physical strain
- Water jet quality is gentle yet effective
- Integrated glove was beneficial and provided a softer more controlled water flow
- Newer company which faced manufacturing and supply chain management issues

# Pain Point: Mobility + Physical Activity

Pain point: need to find ways to enhance rehabilitation and increase mobility for long-term care residents with cognitive decline.



# Solutions for Enhancing Inpatient Rehabilitation Physical Activity



## Centivizer

Tour the world while getting seated exercise with hand and foot pedals or a cross-body trainer. If you stop exercising the video stops!

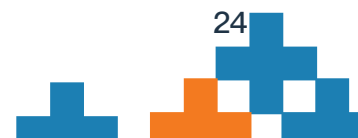
**Indicators:** 🇨🇦 🇮🇹

\$\$ 🖥️ ✅✅✅

**Tested by:**  
**Alberta Health Services**

### Organization Feedback:

- Enhanced interest in engagement and participation from clients
- Opportunity for more videos, scenery, and cognitive simulation games
- Technical issues when collecting data
- Opportunity for equipment to be more user-friendly during set-up and more durable parts





# Solutions for Increasing Mobility of LTC Residents with Cognitive Decline



**Tested by:**  
**Island Health**

Organization Feedback:

- Excellent innovator who made valuable changes such as adding SMS alerts
- Easy and robust data collection
- Increased resident mobility and autonomy but lacked additional features such as geofencing and geo location

## Secur Medic

SecurMEDIC™ solutions adapt seamlessly to the needs of senior living communities, revolutionizing safety and care. By integrating our advanced technologies, residents can easily request assistance. Our monitoring portal provides real-time insights, ensuring optimal safety measures.

**Indicators:** \$\$



## Senxis Solutions

The Senxis Smart Aware platform integrates all of a facility's systems into one user interface and takes advantage of integration to create, collect and analyze operational data to maximum efficiency and value. Our own products include: wireless Nurse Call, wireless tracking, access control, Lobby Kiosk, environmental controls, security systems, digital video, digital signage, LED lighting, Health Metrics data and building sensors. We integrate with PHI/EMR data and facility maintenance data.

**Indicators:**

\$\$ ★★



**Tested by: Riverview Health Centre**

Organization Feedback:

- Allowed for more openness of common areas
- Improved resident mood, physical activity, sleep quality, and social engagement
- Reduced completely negative or aggressive behaviours
- System and solution posed challenges for budgets



# D+A SOLUTIONS CATALOGUE

If you have any questions about the catalogue or the program,  
please **visit [www.cabhi.com](http://www.cabhi.com)** or **email: [jchen@cabhi.com](mailto:jchen@cabhi.com)**.

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