



AGE-WELL Pitch Competition: Technology to Support People with Dementia

FINALISTS

Braze Mobility Inc.

According to a report, 1 in 5 powered mobility device users experienced at least one major collision within a year, and 11% of these individuals were hospitalized due to injuries sustained. These safety concerns often lead to powered mobility exclusion, which in turn leads to loss of mobility. Older adults with a diagnosis of dementia are especially likely to be excluded due to visuo-perceptual difficulties experienced, which can make driving challenging or impossible. At Braze mobility, we create innovative and inclusive technologies to increase safe and independent mobility. Our first product is an add-on system that transforms commercial wheelchairs into 'smart' wheelchairs that detect obstacles, provide feedback, and help prevent collisions. We are currently launching a private beta client program. Through this program, early adopters can purchase our system and be a part of the innovation process. We expect our system to be available to North American consumers by early 2017. We are an interdisciplinary team with expertise in aging, hardware and software development, industrial design, and are partnered with Toronto Rehabilitation Institute, Ontario Brain Institute, as well as the Impact Centre.

Care Angel

Care Angel is a revolutionary way to take better care of your ill, disabled and aging loved ones. The platform offers a freemium artificially intelligent virtual caregiving platform. The service offers its VIP Care Service for free, and its VIP Care +Plus for a per user per month subscription as its main revenues in addition to licensing of data, custom applications, offering a Care Marketplace with sponsorships, premium listings, transactional fees & advertising. Care Angel is in negotiations with payers, providers, and senior organizations, including a major contract to offer Care Angel in Canada in a partnership with CARP (Canadian Association of Retired Persons), Canada's version of AARP. Users will increase usage as they upgrade to VIP Care +Plus (\$10/month), a more robust, feature rich paid version of the VIP Care service (Free). Current survey of caregivers (Q4/2015) indicates over 45% of caregivers willing to pay \$39/month or more & 72% will pay \$19/month for the VIP Care +Plus service.

Centivizer

Centivizer.com develops games and products designed to provide engaging and enjoyable interactions while slowing the physical and cognitive deterioration associated with aging in general, and with conditions such as dementia and mild cognitive impairment in particular. Founded in June 2016, Centivizer is a spinoff from the University of Toronto that is commercializing research conducted at the Interactive Media lab in the Department of Mechanical and Industrial Engineering. The research is supported by the AGE-WELL Network of Centres of Excellence. Centivizer is currently evaluating a prototype of its first product, the LTC Centivizer, which it expects to release to Long term care homes in Fall 2016. A second product, the AIP Centivizer, is planned for launch in 2017. The Centivizer business strategy is to focus on research, product development, and marketing, and to outsource business processes such as manufacturing, assembly, distribution, and order fulfillment.



GRAY MATTERS

The Gray Matters App aims to lessen the risk of developing Alzheimer's disease (AD). It is the first app rooted in clinically relevant data, proving the validity and worth of the app, to focus on behaviour modification facilitated by a daily tracking tool to monitor progress and evaluate outcomes. It has been developed and evaluated through the partnership of a clinical and technical team of academic researchers from the UK (Ulster University) and the US (Utah State University). The research, development and evaluation of the app has progressed to a stage where it is now ready for deployment in the public domain. To maximize the impact of the Gray Matters app and to assist with a wide scale penetration the academic team recognize the need to partner with an already established commercial organization working in the space. The goal is therefore to identify a partnership through either a joint venture or a licensing agreement.

Kubi – Revolve Robotics

Kubi from Revolve Robotics is an easy to use, affordable telepresence robot that lets remote video callers look around. We work with elder care providers who use Kubi to deliver care management remotely to their clients. Kubi allows both family and care managers to visit older adults much more effectively, saving time and money, and increasing quality of care. Kubi means “neck” in Japanese, and our product is just that, a robotic tablet stand that gives you the freedom to interact while video conferencing. Kubi offers solutions in health-care, education and business.

MotioSens Inc.

MotioSens is an Oregon based company developing smart-home technologies to enable seniors to live in their homes longer by allowing care providers and relatives to monitor health and mobility and detect deviations in regular activities of everyday living. We are the first company to introduce a simple-to-install sensor platform that works unobtrusively in the background without requiring a pendant or wrist-worn device. With 54 million seniors over the age of 65 by 2020, we are focused on the \$3 billion market for retirement communities and people living independently, where our products will enable improved care and safety, cost containment, and provide peace of mind to caregivers. We are a technology transfer spinoff company with founders from both the Oregon Health & Sciences University and Portland State University. To date, we have been funded through the National Institute of Health and through the Alzheimer's Association to develop and validate our patented technology.

SingFit

At Musical Health Technologies, our award-winning team of music therapists, product gurus and technologists combine a rapidly growing body of scientific research on the health benefits of prescribed singing with SingFit, our proprietary mobile music platform and content library. This innovative combination of medical science, app tech and popular songs allows us to mass distribute the benefits of music as medicine for the first time in history in order to successfully tackle many of our most vexing health care problems, including dementia, autism and depression. See for yourself why our award-winning, revenue-producing SingFit PRIME solutions for dementia care win rave reviews from our



industry-leading customers and honors, including the USC Keck School of Medicine Body Computing Prize and the AARP Caregiving Award.

An Automated Vision System for Ongoing Pain Assessment and Monitoring in Dementia

Conventional approaches to address the under-management of pain in dementia care are costly, as they require continuous and frequent monitoring of residents by already overworked long-term care (LTC) staff. Therefore, there are usually not implemented, resulting in unnecessary and avoidable pain. Our solution is to adapt an existing computer vision technology to solve this problem in a cost effective manner. We are developing the technology and will validate it against clinically established methods of assessing pain in dementia. Once complete, this will be the first to-date proven technology to continually and automatically monitor pain in LTC. Such a technology does not currently exist in the market. This technology will reduce pain and improve quality of life in older adults with dementia living in LTC homes. It will also improve productivity and efficiency of LTC health professional in caring for clients with dementia.

Ubimodo

Ubimodo offers a ground-breaking platform as a service (PaS) that enables existing or new mobile application or devices the benefits of a universal gateway for their customers/members. Our PaS is designed to National Incident Management System (NIMS) standards in the USA and Canadian Provincial Police standards. The collaboration with international law enforcement and search and rescue agencies will create a new international standard. As Ubimodo delivers actionable intelligence to law enforcement and the first responder community when a safety incident occurs.

Our PaS and patented medical wearable technology license allows Ubimodo to offer a new level of safety to those afflicted with cognitive mental impairment and disease. Our PaS and customized applications and/or intelligent textile solutions offer risk mitigation for home visiting staff to clients at risk of facility elopement. The revolutionary new standard for care will expedite care coordination internally and with outside agencies. When properly used, Ubimodo can aid caretakers and first responders with actionable data; from biometric monitoring to a reduced time to find the lost or missing person. Additionally, we bring an entire new level of safety to first responders - who often place their own safety at risk so others may live.

Winterlight Labs Inc.

Our tablet-based assessment can be used in two verticals: 1) clinical trials and 2) long-term care. Trials for Alzheimer's disease (AD) have to screen 10 people to enroll one participant (90% screening fail rate). Phase 2 and 3 clinical trials need to enroll between 600 - 2,000 individuals, which requires screening between 6,000 to 20,000 people. Screening can span five visits, takes a total of 15 hours, and costs in excess of \$8,000 for a single participant. By using our fully-automated technology prior to the current screening methods, they can better predict who will pass each stage of screening, saving time and up to \$500,000 per trial. Furthermore, this technology can also be used in long-term care and retirement resident settings to monitor cognition, provide additional services and predict adverse changes in cognition.