GeckoSystems' Service Robot, the CareBot(tm), Addresses Care Giver Shortage for Japanese Elderly

Yahoo addresses multi-billion dollar Japanese market

CONYERS, GA, April 17, 2012 -- GeckoSystems Intl. Corp. (Pink Sheets: GOSY | http://www.geckosystems.com/) -- announced today that they applaud multi-national electronics giant Panasonic's recognition of the need for utilitarian mobile service robots to assist Japan's rapidly growing elderly population.

"Japan's elderly drive demand for care-giving robots"
http://news.yahoo.com/japans-elderly-drive-demand-care-giving-robots-144510124.html

GeckoSystems has successfully completed Alpha trials of its CareBot personal assistance robot for the elderly. It was tested in home care settings and received enthusiastic support from both caregivers and care receivers. The company believes that the CareBot will increase the safety and well-being the elderly world wide, relieving stress on the care giving family and government welfare institutions.

GeckoSystems is preparing for Beta testing of the CareBot prior to full-scale production and marketing. The CareBot has recently incorporated Microsoft Kinect depth cameras that result in a significant cost reduction.

Footage from the CareBot Elder Care Alpha Trial
http://www.youtube.com/watch?v=xxK46chfP6A

Above, the CareBot demonstrates static and dynamic obstacle avoidance as it backs in and out of a narrow and cluttered alley. Unlike most of the developmental stage robots backed my major corporatons, there is no joystick control or programmed path. GeckoNav(tm) uses Artificial Intelligence (AI) to create three low levels of obstacle avoidance: reactive, proactive, and contemplative. Subsumptive AI behavior enables the CareBot to reach its target destination after engaging in obstacle avoidance. GeckoSystems plans to provide robotic products for many consumer and commercial applications including security, defense and healthcare.

Kinect Enabled Personal Robot video:
http://www.youtube.com/watch?v=kn93BS44Das

About the CareBot(tm):

The CareBot has proven to be ideal for the Personal Assistance market (care for children, chronically ill, and the elderly) which has been chronicled in articles from Psychology Today (http://www.psychologytoday.com/blog/adventures-in-old-age/200906/the-robots-have-dawned-meet-the-carebot) and subject-related blogs (http://cgmasi.com/eyeontechnology/2009/06/personal-robots-to-monitor-elderly-vital-signs.html). In this market, mobile service robots (MSRs) serve as a cost effective alternative to nursing care or assisted living. The estimated annual savings for a single family is in the tens of thousands of dollars: http://www.geckosystems.com/markets/CareBot_ROI.php

The CareBot has multiple layers of safety precautions. These safeguards are enabled three ways: mechanical, electronic, and using AI computer software.

- The robot is very stable and difficult to tip over since nearly seventy percent of its weight is less than eight inches above the floor and sits low between large, ten-inch diameter wheels. The wheels are wide and soft enough such that if the robot did go over a child's arm, for example, it would not break the skin or any bones.

- Multiple layers of sensors are fused to provide a safety umbrella to enable actionable situational awareness. Going outward from the center of the CareBot is the GeckoTactileShroud(tm), which detects where on its shroud it has been bumped by people or animals. The GeckoImager(tm) detects virtually everything in the front and to the sides of this fully autonomous mobile robot up to sixty inches. Obstacles more distant are detected by twin ultrasonic rangefinders.

- The advanced AI navigation software, GeckoNav(tm), takes in the hundreds of sensor readings per second and using its high level situational awareness, consistently avoids unforeseen static and/or dynamic obstacles for safe movements.

Like an automobile, the CareBot is made from steel, aluminum, plastic and electronics, but with up to 20 times the amount of software running. It has an aluminum frame, plastic shroud, two independently driven wheels, multiple sensor systems, microprocessors and several onboard computers connected by a local area network (LAN). The microprocessors directly interact with the sensor systems and transmit data to the onboard computers.

The onboard computers each run independent, highly specialized cooperative/subsumptive artificial intelligence (AI) software programs, GeckoSavants, which interact to complete tasks in a timely, intelligent and common sense manner. GeckoSuper(tm), GeckoNav(tm), GeckoChat(tm), GeckoScheduler(tm) and GeckoTrak(tm) are primary, high level GeckoSavants. GeckoNav is responsible for maneuvering, avoiding dynamic and/or static obstacles, seeking waypoints and patrolling.

GeckoChat is responsible for interaction with the care-receiver such as answering questions, assisting with daily routines and reminders, and responding to other verbal commands. GeckoTrak, which is mostly transparent to the user, enables the CareBot to maintain proximity to the care-receiver using sensor fusion. The CareBot is a new type of Internet appliance, a personal assistant life support robot, which is accessible for remote video/audio monitoring and telepresence.

Market Research

At the time GeckoSystems was founded, over 14 years ago, they did extensive primary market research to determine the demographic profile of the early adopters of the proposed CareBot product. Subsequently, they have assembled numerous focus groups to evaluate the fit of the CareBot(tm) personal robot into the participant's lives and their expected usage. The Company has also frequently employed the Delphi market research methodology, contacting and interviewing senior executives, practitioners and researchers knowledgeable in the area of elder care. This primary and secondary market research, supplemented by extensive third party material that is available from researchers worldwide is the statistical substance for the Company's sales forecasts.

Not surprisingly, scientific statistical analysis reveals that the elderly over 65 living alone in metropolitan areas access to broadband internet and sufficient household income were identified as those most likely to adopt initially. Due to the high cost of assisted living, nursing homes, etc. the payback for a CareBot is expected to be only seven to nine months, with an added benefit of keeping elderly care receivers independent, in their own long time homes, and living longer due to the comfort and safety of more frequent attention from their loved ones.

The Projected Consumer Market Size In Dollars For Cost Effective, Utilitarian, Multitasking Eldercare Personal Robots:

Year	Market Size
2013	$74 billion
2014	$77 billion
2015	$80 billion
2016	$83.3 billion
2017	$86.6 billion

Estimated Market Penetrations and Projected Sales:

Year	Percentage	Projected Sales
2013	0.06%	$22 million
2014	0.03%	$44 million
2015	0.22%	$176 million
2016	0.53%	$440.2 million
2017	0.81%	$704.3 million

Source: U.S. Census Bureau; GeckoSystems

"The Company expects these domestic sales despite --and perhaps because of-- the recent Great Recession due to pent up demand for significant cost reduction in eldercare expenses. The foregoing forecasts do not include sales in non-metropolitan areas; elderly couples over 65 (only elderly living alone are in these forecasts); those chronically ill --regardless of age-- or elderly living with their adult children, " summarized Martin Spencer, President/CEO, GeckoSystems Intl. Corp.

About GeckoSystems Intl. Corp.:

GeckoSystems has been developing innovative robotic technology for over fourteen years. It is CEO Martin Spencer's dream to make people's lives better through robotic technology.

GeckoSystems, Star Wars ™ Technology
http://www.youtube.com/watch?v=VYwQBUXXc3g

Although the company's primary focus has been an elder care robot, the CareBot(tm), AI (artificial intelligence) software technology developed for this project is being marketed internationally. The company believes many devices in use today can be improved through the use of its AI navigation software system. The company expects their "SafePath Enabled" wheelchair and an upgrade for existing wheelchairs will be on the market sometime in 2012.

GeckoSystems' Mobile Robot Solutions Improve Wheelchair Safety
http://www.geckosystems.com/markets/wheelchair.php

The Company's "mobile robot solutions for safety, security and service" are appropriate not only for the consumer, but also professional healthcare, commercial security and defense markets. Professional healthcare require cost effective, timely errand running, portable telemedicine, etc. Homeland Security requires cost effective mobile robots to patrol and monitor public venues for weapons and WMD detection. Military users desire the elimination of the "man in the loop" to enable unmanned ground and air vehicles to not require constant human control and/or intervention.

GeckoSystems stock is quoted in the U.S. over-the-counter (OTC) markets, on the Pink OTC Current Information tier, under the ticker symbol GOSY.

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Source: GeckoSystems Intl. Corp.

Safe Harbor:

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