



Can Robotic Technology Help Address Healthcare Challenges?

Connected Health Symposium
October 21, 2009

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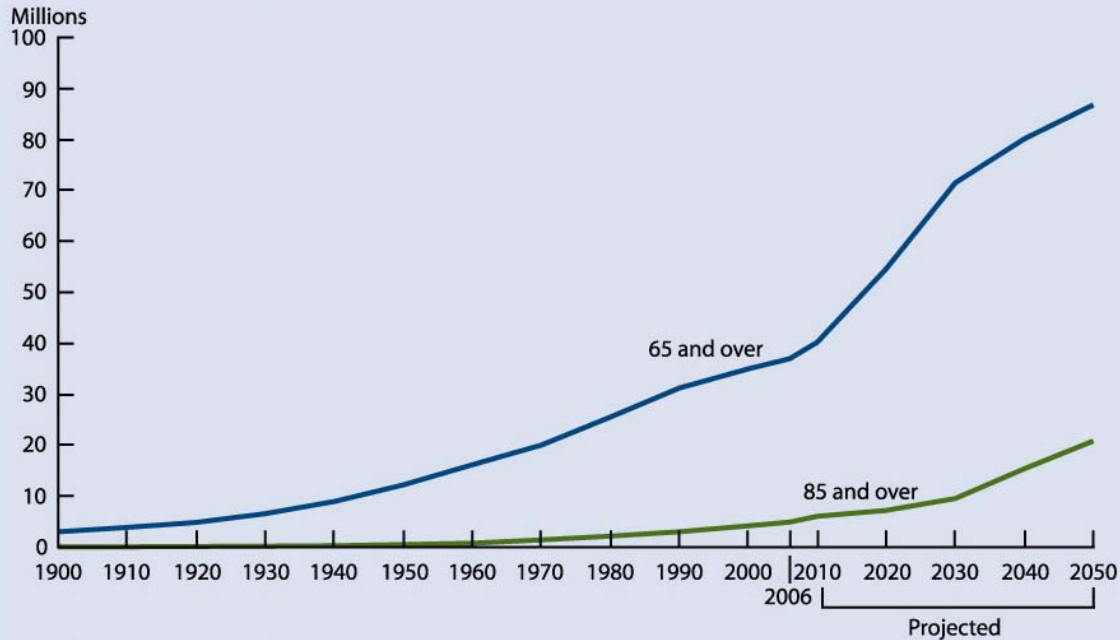
More Seniors...Living Longer

Currently 40M seniors in the U.S.

- 85+ fastest growing segment (currently 9M)
- 80% will live with at least one chronic disease
- Healthcare costs are 3-5x greater



Number of people age 65 and over, by age group, selected years 1900–2006 and projected 2010–2050




Note: Data for 2010–2050 are projections of the population.

Reference population: These data refer to the resident population.

Source: U.S. Census Bureau, Decennial Census, Population Estimates and Projections.

Other Chronic Health Challenges

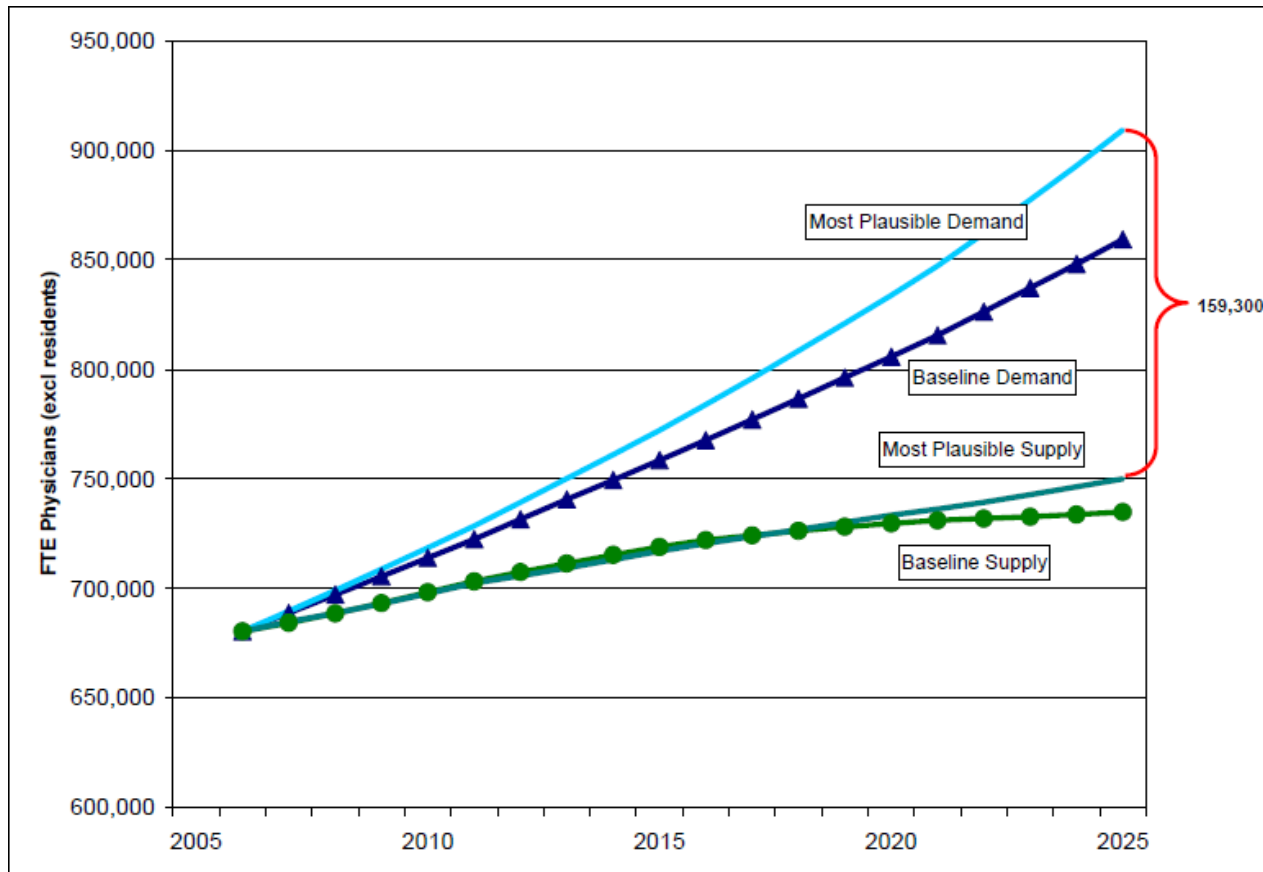


67 children will be diagnosed today

Autism Spectrum Disorder (ASD)

- A lifelong incurable disorder
- 1.5M Americans
- Fastest growing developmental disability
- \$90B annual cost in the U.S.

Shortage of Caregivers



*Source: The Complexities of Physician Supply and Demand: Projections Through 2025, Michael J. Dill and Edward S. Salsberg, Association of American Medical Colleges, 2008.

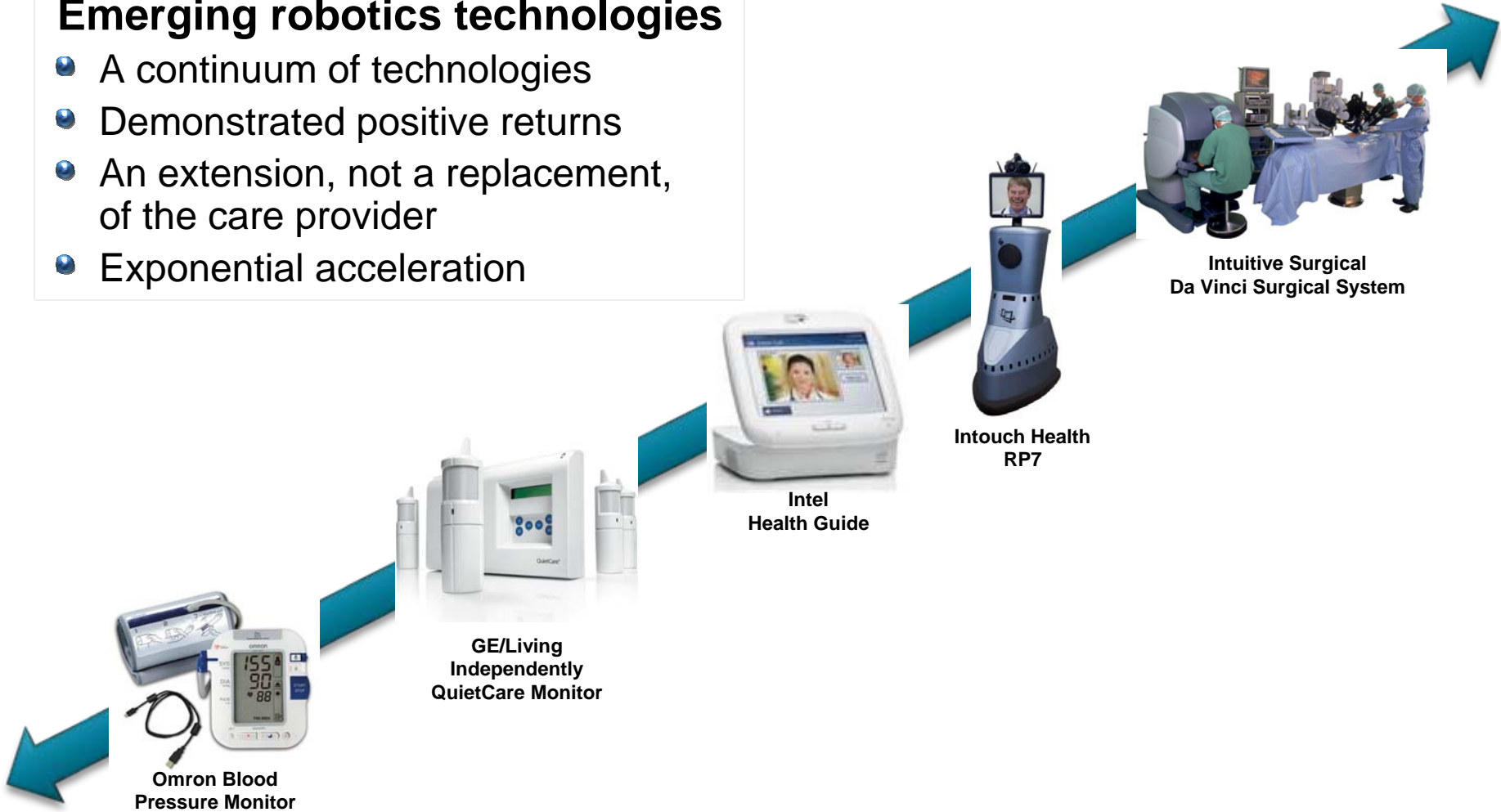
Obama administration officials, alarmed at doctor shortages, are looking for ways to increase the supply of physicians to meet the needs of an aging population and millions of uninsured people who would gain coverage under legislation championed by the president.

The New York Times, April 26, 2009

Robotic Technology in Healthcare

Emerging robotics technologies

- A continuum of technologies
- Demonstrated positive returns
- An extension, not a replacement, of the care provider
- Exponential acceleration

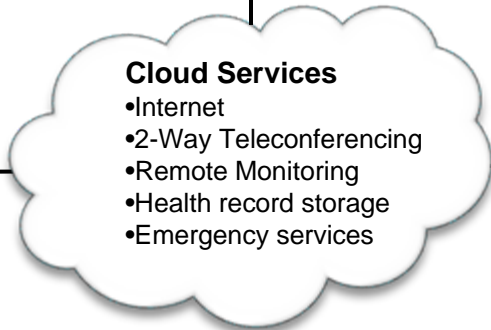


Assistive Care Robots as a Solution

Aging-in-Place Senior (89%)

Better independence, quality of life, and lower care costs

- Memory enhancement
- Mobility enhancement
- Coaching/Rehabilitation
- Biometric device hub
- Information access
- Social networking
- Healthcare services and caregivers access
- Entertainment



Cloud Services

- Internet
- 2-Way Teleconferencing
- Remote Monitoring
- Health record storage
- Emergency services



We need answers today for what faces this generation because we are running out of time to prepare for what's coming.

- Joseph Coughlin, Director of the Massachusetts Institute of Technology AgeLab Director