

Technology for Aging in Place

Laurie M. Orlov

Aging in Place Technology Watch

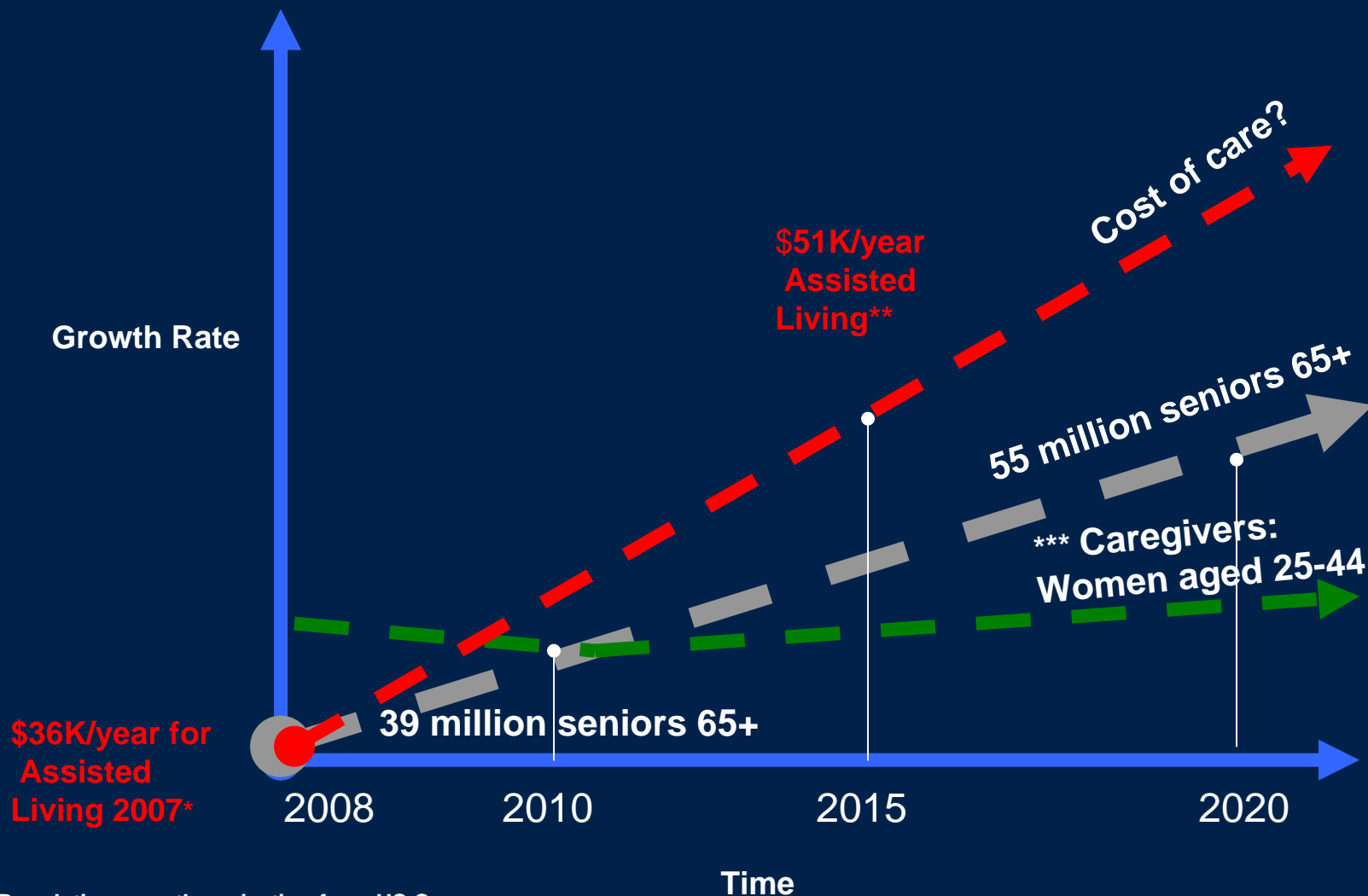


The reality of caregiving

- 10 million seniors live alone
- 25% of families care* for someone outside the home
- 79% of care recipients are over age 50
- Average age of care recipients is 75
- 2007 informal caregiving costs estimated at \$60 billion

* Care: occasional up to frequent help with ADLs or IADLs

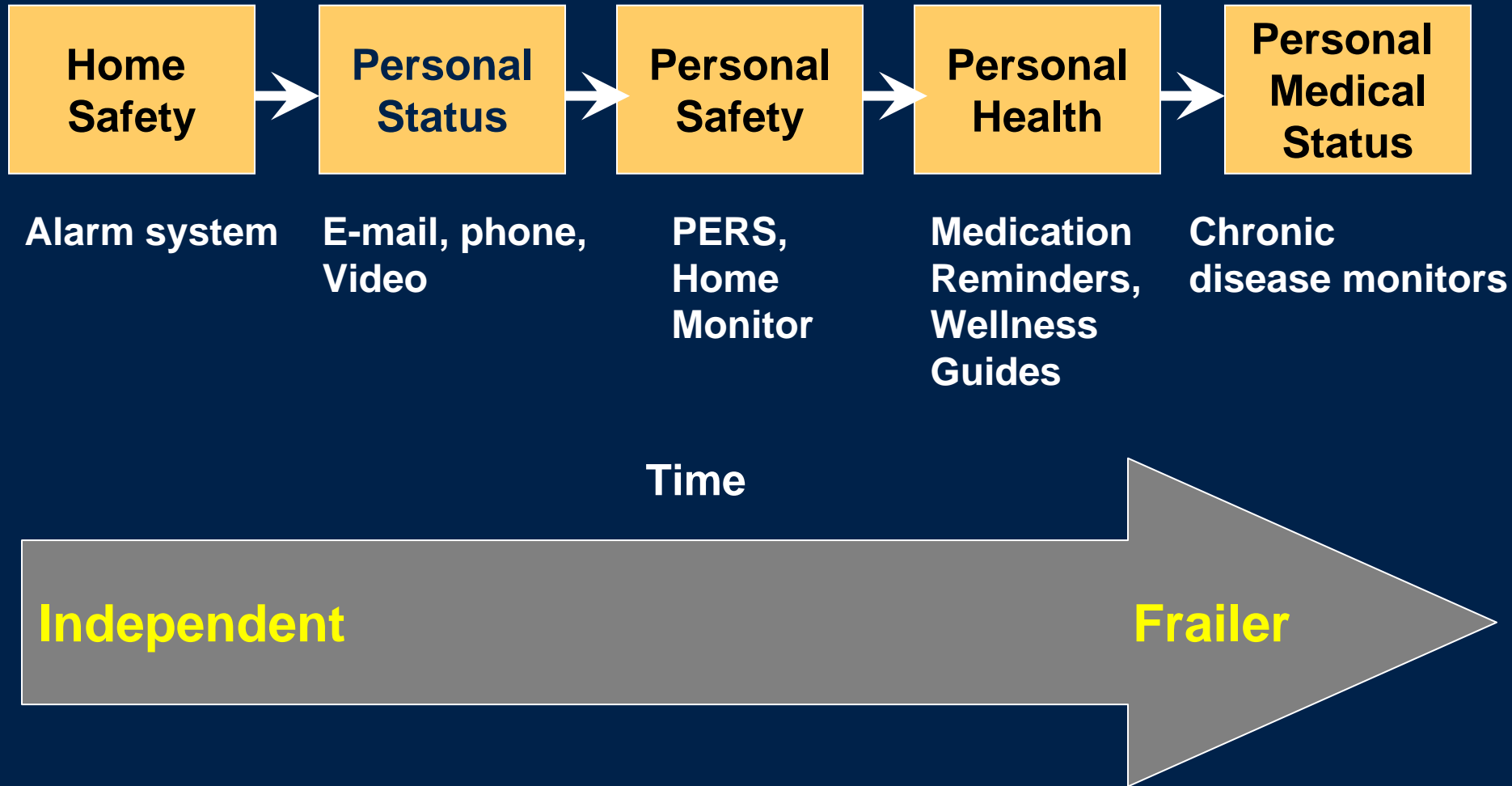
The looming crisis of care



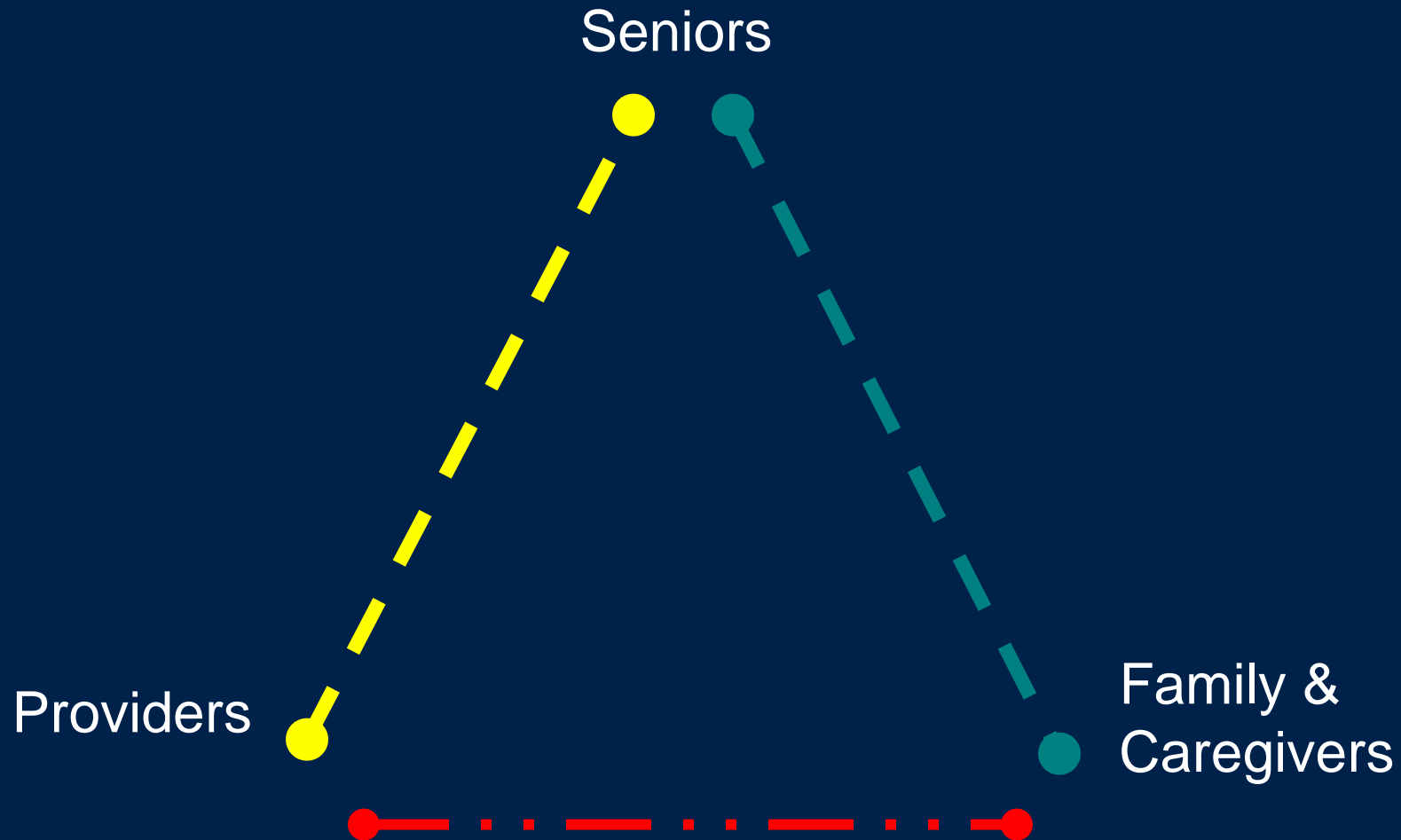
Population growth projection from US Census
 *Source: AARP State-by-State Long Term Care Costs

**Source Amer. Association LTC & MetLife
 ***Source National Clearinghouse Direct Care Workforce

Aging status changes vary an individual's needs



Aging in Place depends on connected relationships...





Four aging in place technology categories

Email
Videophone
Cell phone
PCs

Communication
and Engagement

Home Safety and
Security

Security
PERS
Home monitor

Health and Wellness

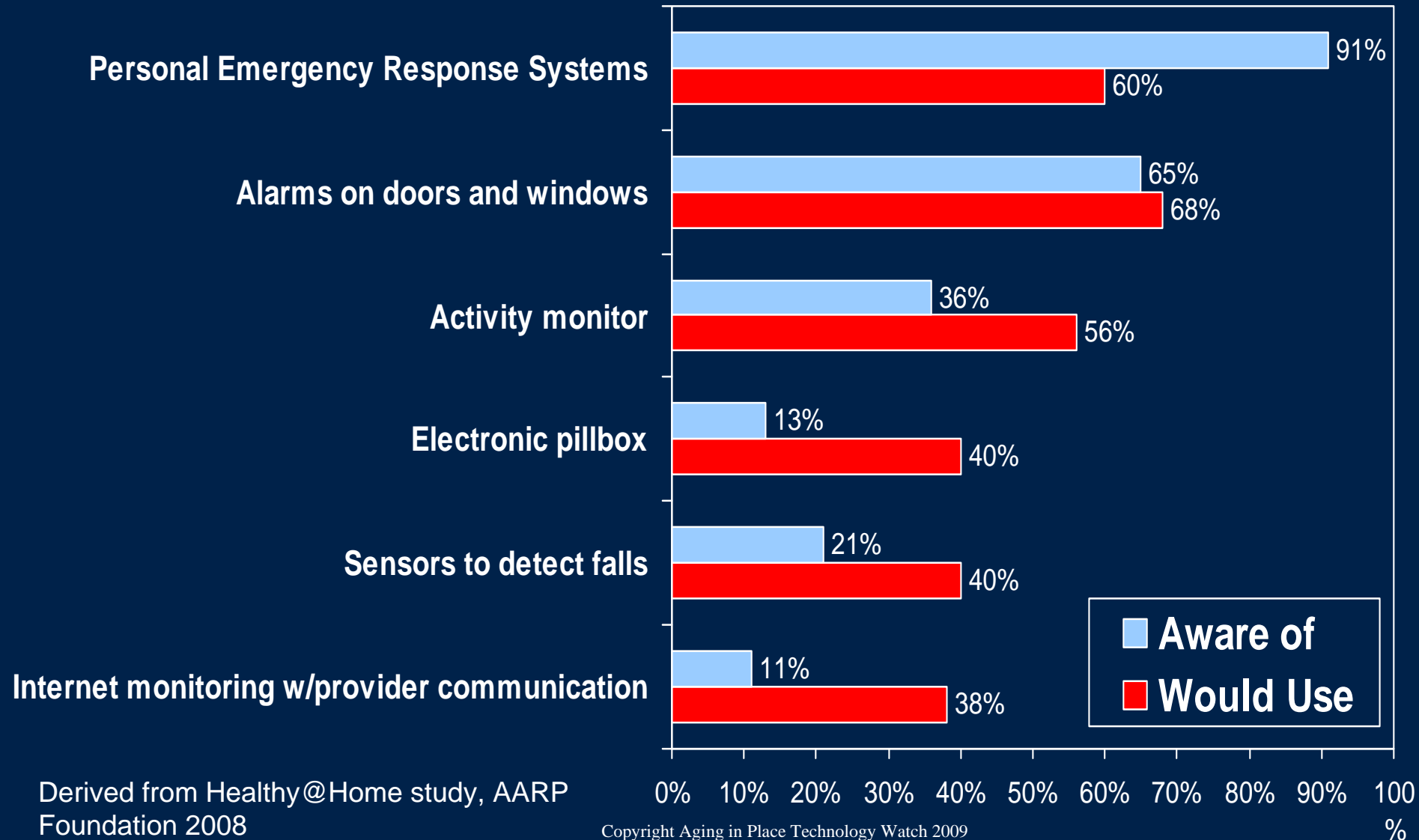
Learning and
Contribution

Cognitive fitness
Medication dispensing
and reminders
Exercise

Social networking
Legacy
Education and
learning



Awareness and potential use of home technology devices among 65+



A day in the life: Tech-enabled relationships



Senior living at home

- Passes doorway motion sensor
- Puts on PERS watch
- Receives cell-phone medication reminder call
- Gets a video call from grandkids
- Requests transportation pickup
- Participates in online hobby forum
- Attends a distance learning course

Long-distance Family



- Makes the video call
- Shares trip photos
- Sets up family tree



Family/Caregivers

- Updates personal health record
- Preloads ePill canister
- Sets med reminder schedule
- Configures notification phone list
- Receives home-related alerts

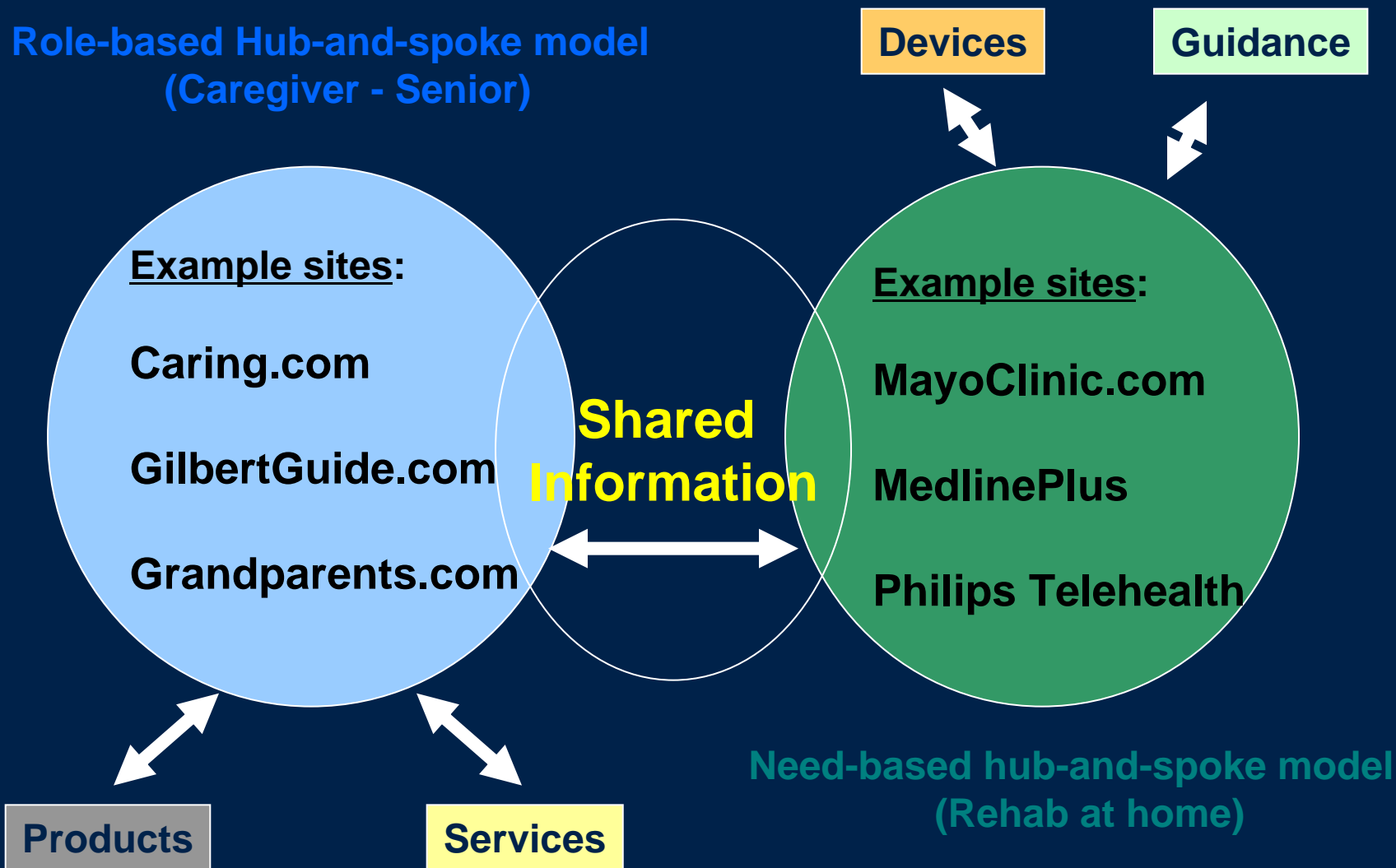


Healthcare Providers

- Updates personal health record
- Writes ePrescription
- Checks downloaded data from wearable cardiac monitor
- Answers e-mail question from senior



Hubs offer a lens to view and find Aging in Place Services



Role- and Need-based hubs will emerge and grow



- Providing a lens to serving aging-related roles
- Powering a community of shared interests
- Serving caregiver family and professionals
- Spanning the distance and disconnect in relationships
- Building upon today's social networks
- Simple to use and intuitive

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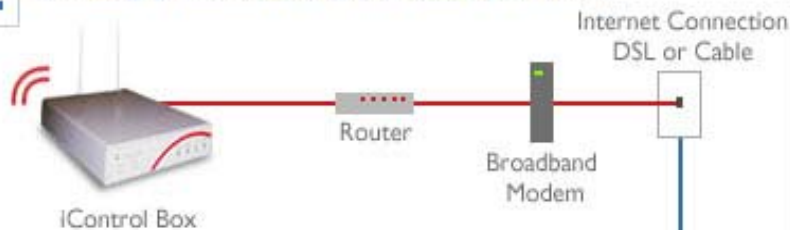


Fewer boxes, less data, more information



- Identifying and marketing to common needs
- Inside the home – built-in TV/computers, with cameras in and around the home, easily switched on and off
- Delivered by channels that reach into the home
 - » ISP Network provider
 - » Cable company
 - » Cell phone provider

2 Connect your iControl Box to your router and modem



3 Access your iControl service via the internet using a PC, cell phone or PDA





For seniors, firms will emphasize:

- Subscription-based services
- Home to outside – linkages to providers for health-related monitoring or for sharing information
- Wearable inside and outside



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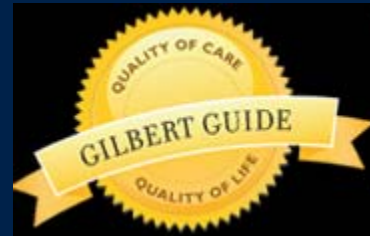


Power of Information.
Comfort of Home.

Applications will meet social and information needs

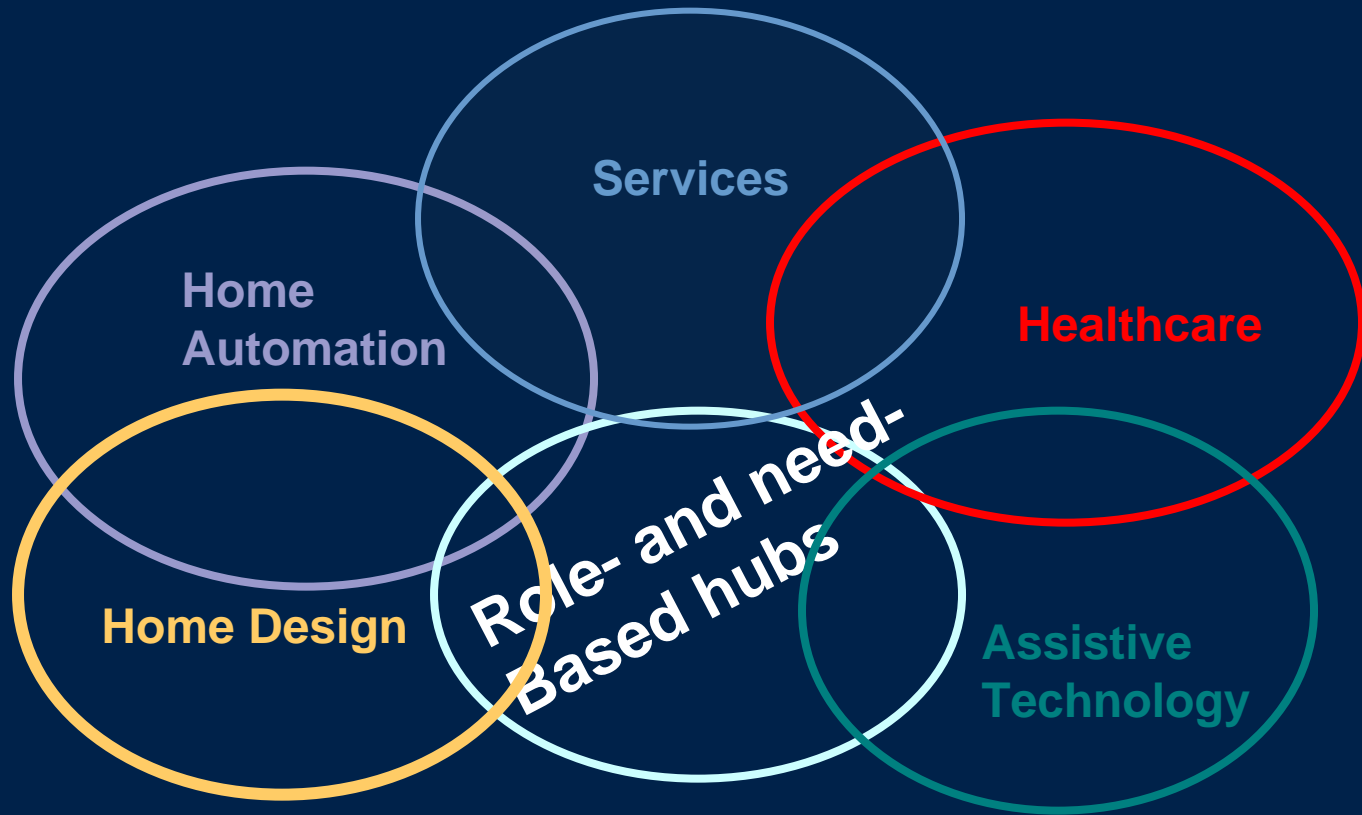


- **Discovery** and finding people with common interests
- **Opt-in** information and connecting to services (health, safety, work)
- **Blurred life stages** – available as needed for individuals at every age
- **Mobile** – applications will follow the person from home or away





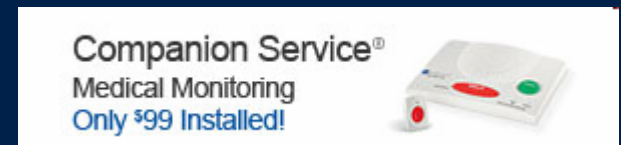
Aging in place market silos will overlap



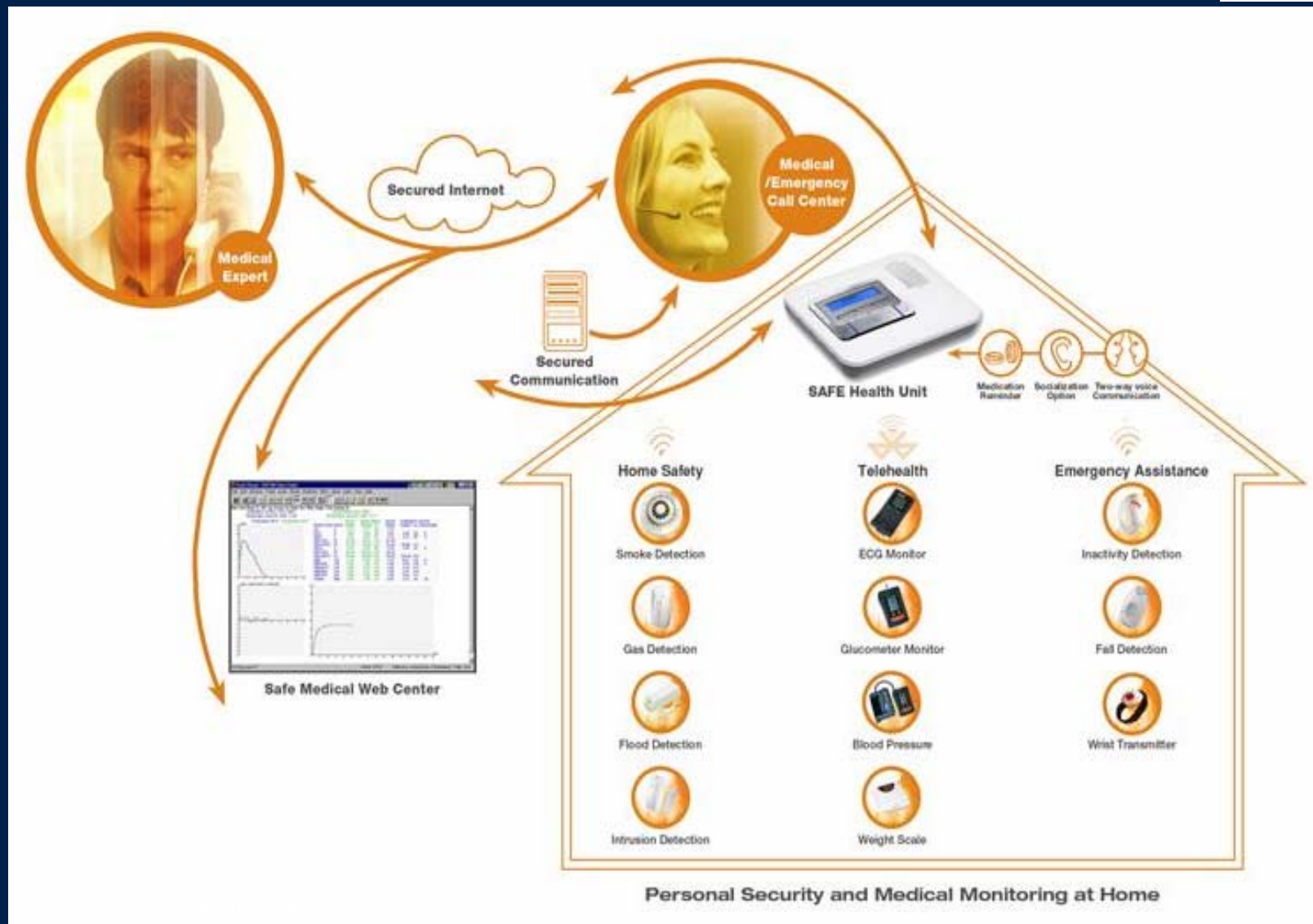
Aging in place market silos will overlap



- **CAPS certification** will require home wireless and sensor networking knowledge
- **Home automation** bundles as a service will become a feature offered through need-based hubs
- **Security vendors** will provide interfaces for healthcare devices
- **Remote healthcare** will take the initiative to partner with security and home monitoring



Visonic security platform crosses into healthcare



Eskaton National Demonstration Home



- Connectivity through TV or home computer
- Wellness monitoring
- Cognitive fitness games
- Smart reminders
- Smart lighting and appliances

Courtesy of Eskaton Senior Residence and Services 2008

Baby boomers circa 2011



Thank you!

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