

Aging2.0: Accelerating Innovation

14 October 2015

Reforming States Group, Salt Lake City

Crispin Baynes, Aging2.0

@Aging20

AGING^{2.0}

A photograph of the Golden Gate Bridge in San Francisco at night. The bridge's towers and suspension cables are illuminated with a warm, golden light, contrasting with the deep blue twilight sky. The bridge spans across a body of water, with city lights visible in the distance. The overall mood is serene and iconic.

Exponential technology meets unprecedented aging

Breakthrough tech: saving costs & improving care

Our approach: Building a global platform



**CHANGE
AHEAD**



Harnessing the power of **technology** to address the **challenges** and **opportunities** of demographic change



QUALITY OF LIFE

Living longer, staying productive & engaged



QUALITY OF CARE

Escalating disease burden and cost of care

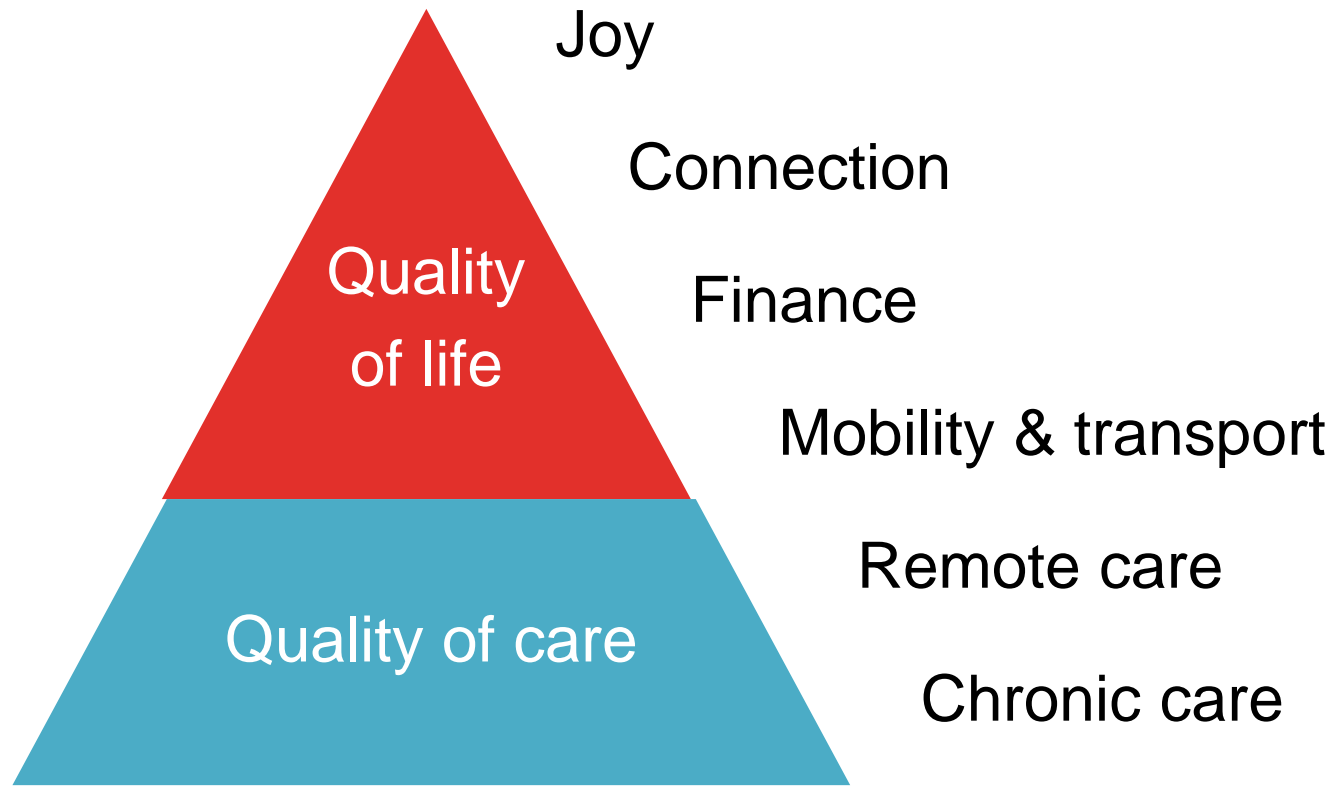
A photograph of the Golden Gate Bridge at night, illuminated with warm lights against a dark blue sky. The bridge's towers and suspension cables are visible, and the lights reflect on the water below. The image has a dark, textured overlay.

Exponential technology meets unprecedented aging

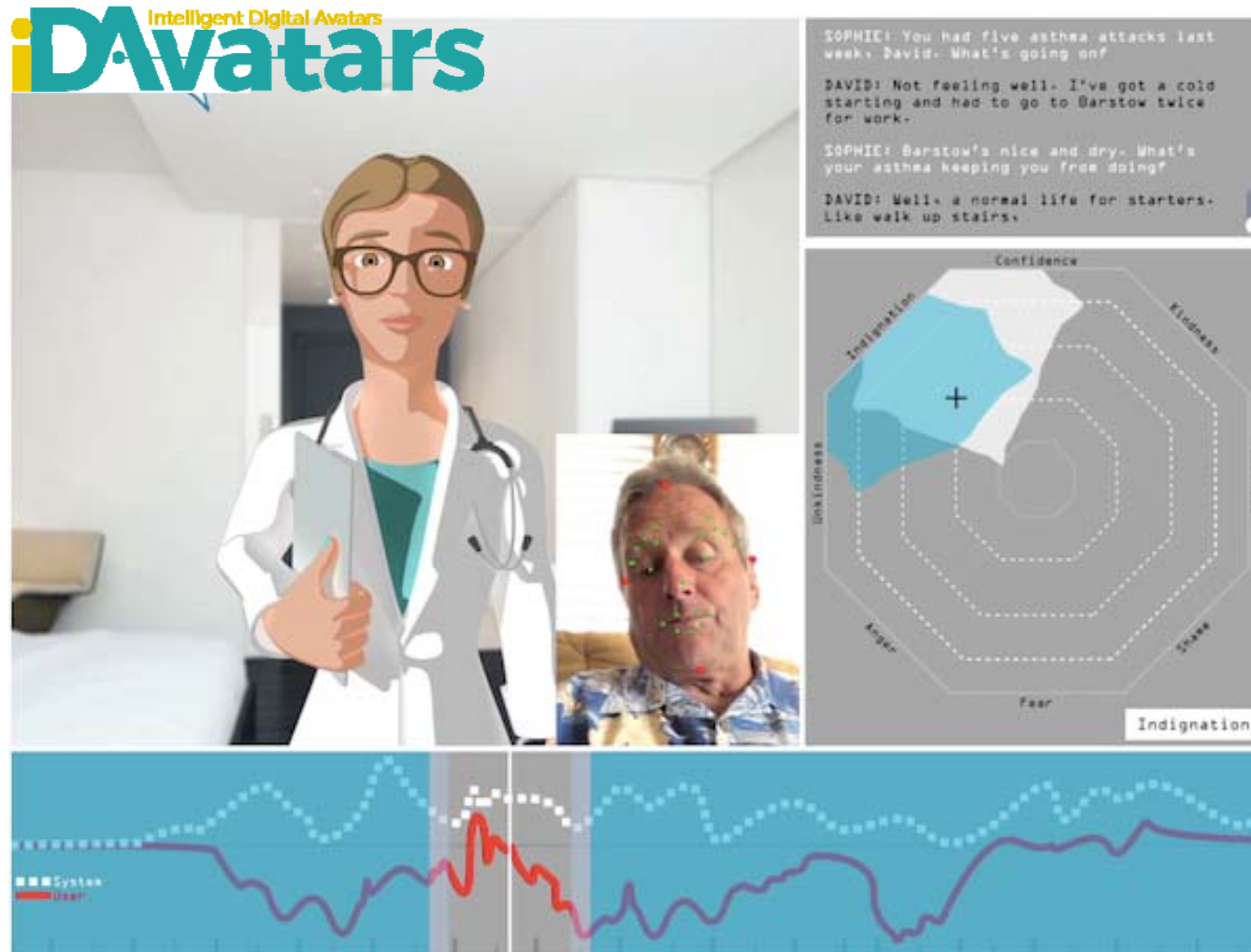
Breakthrough tech: saving costs & improving care

Our approach: Building a global platform

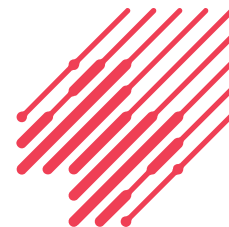
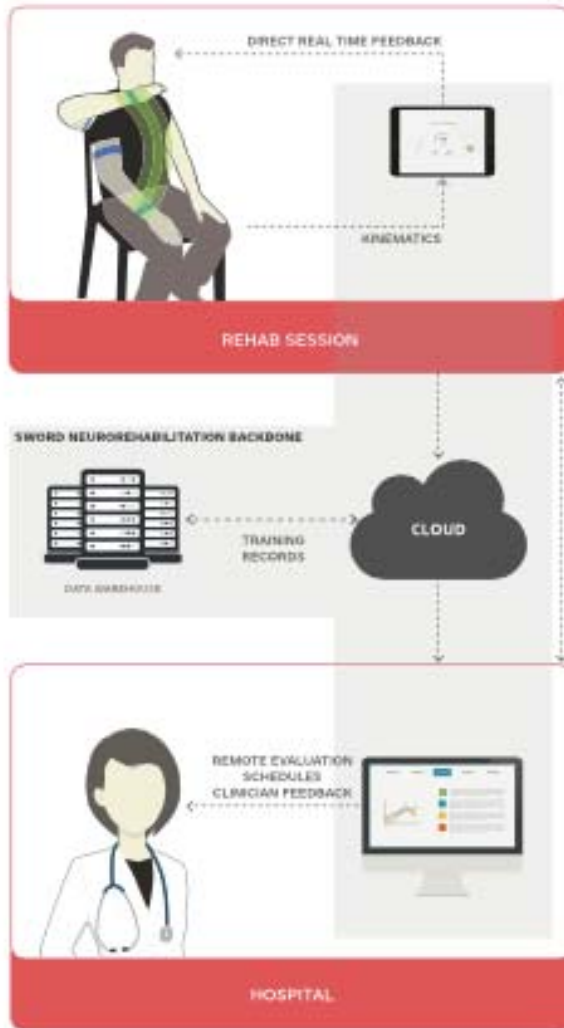
Breakthrough technologies can reduce costs while improving quality of life and quality of care



Avatar-based home nurse visits & monitoring

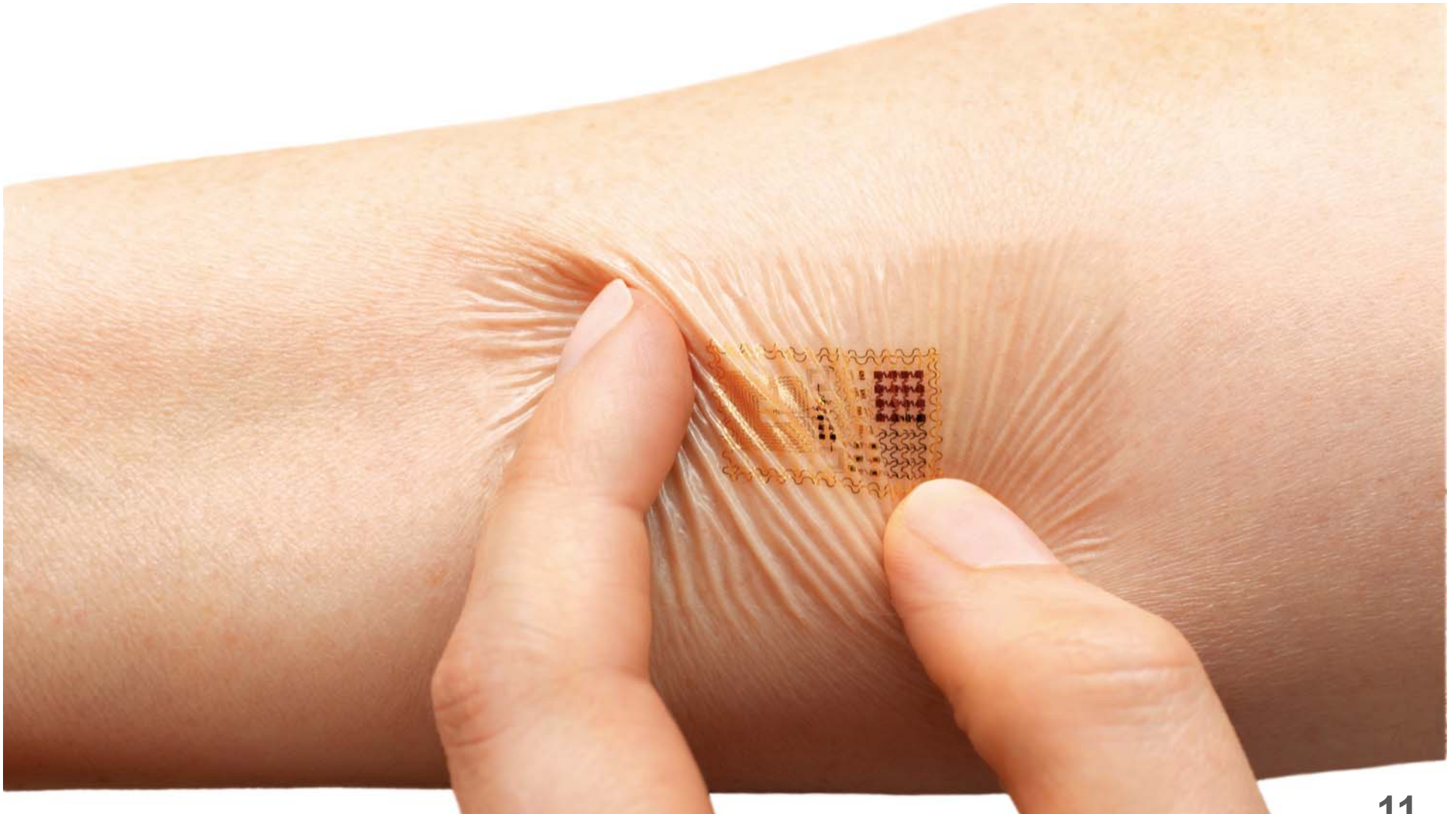


Digital therapy with haptic feedback

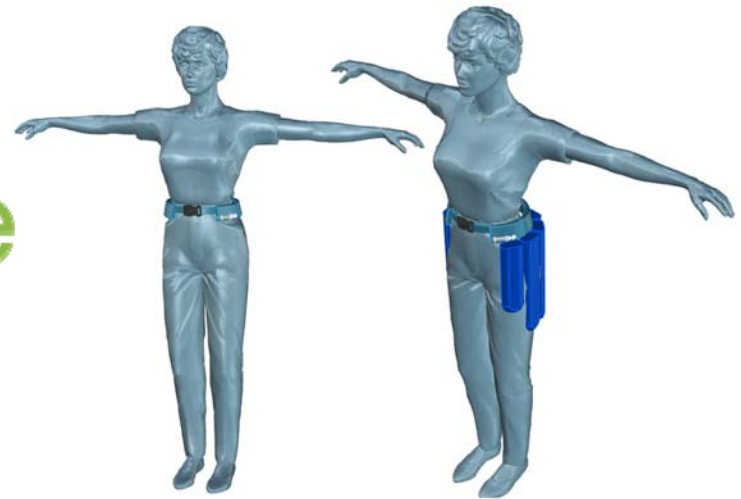


SWORD

Wearable, invisible health sensors



Fall prevention, prediction and protection



Designs to enhance mobility and independence



2014

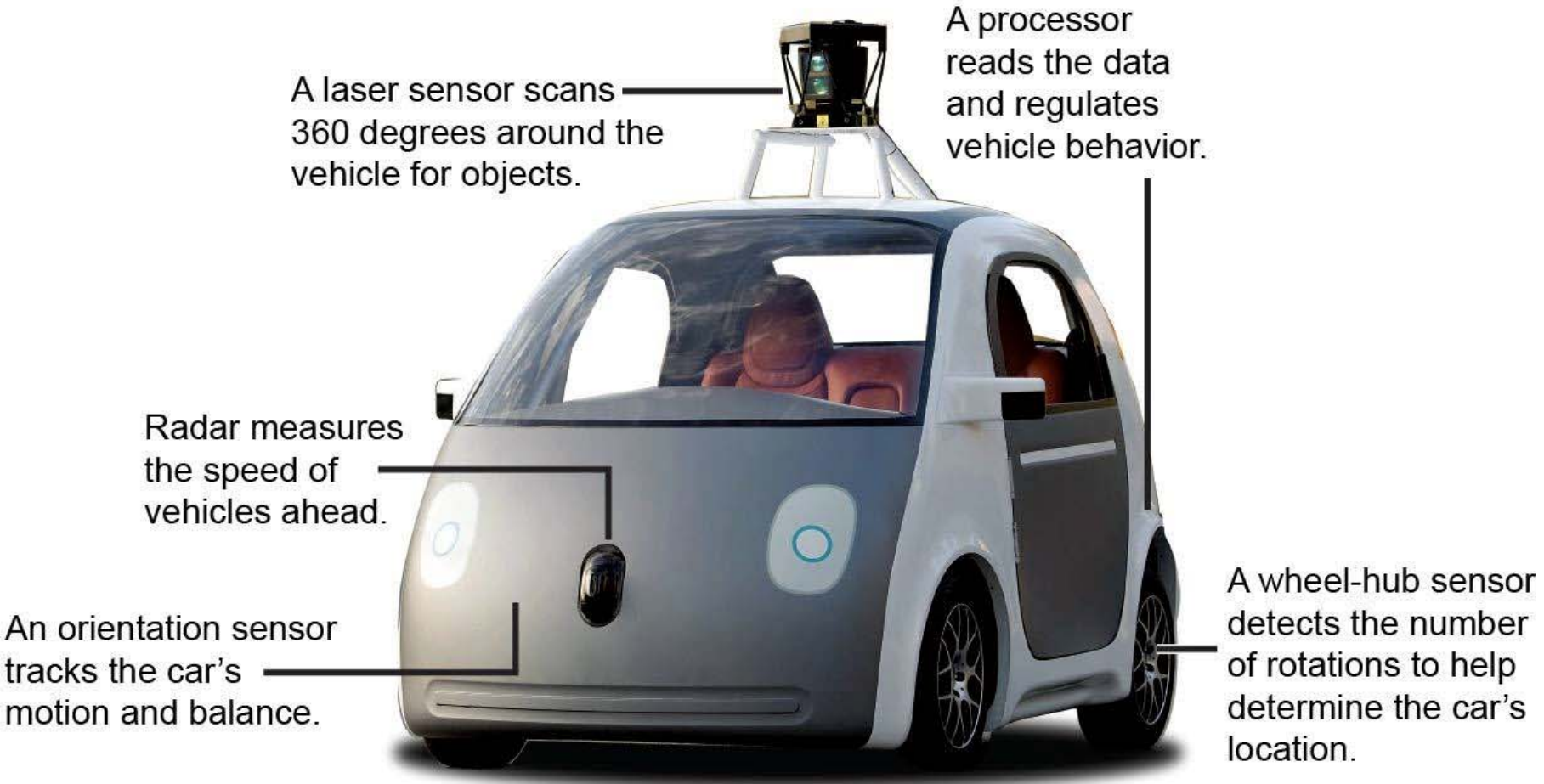


2015

Enabling independent living & autonomy



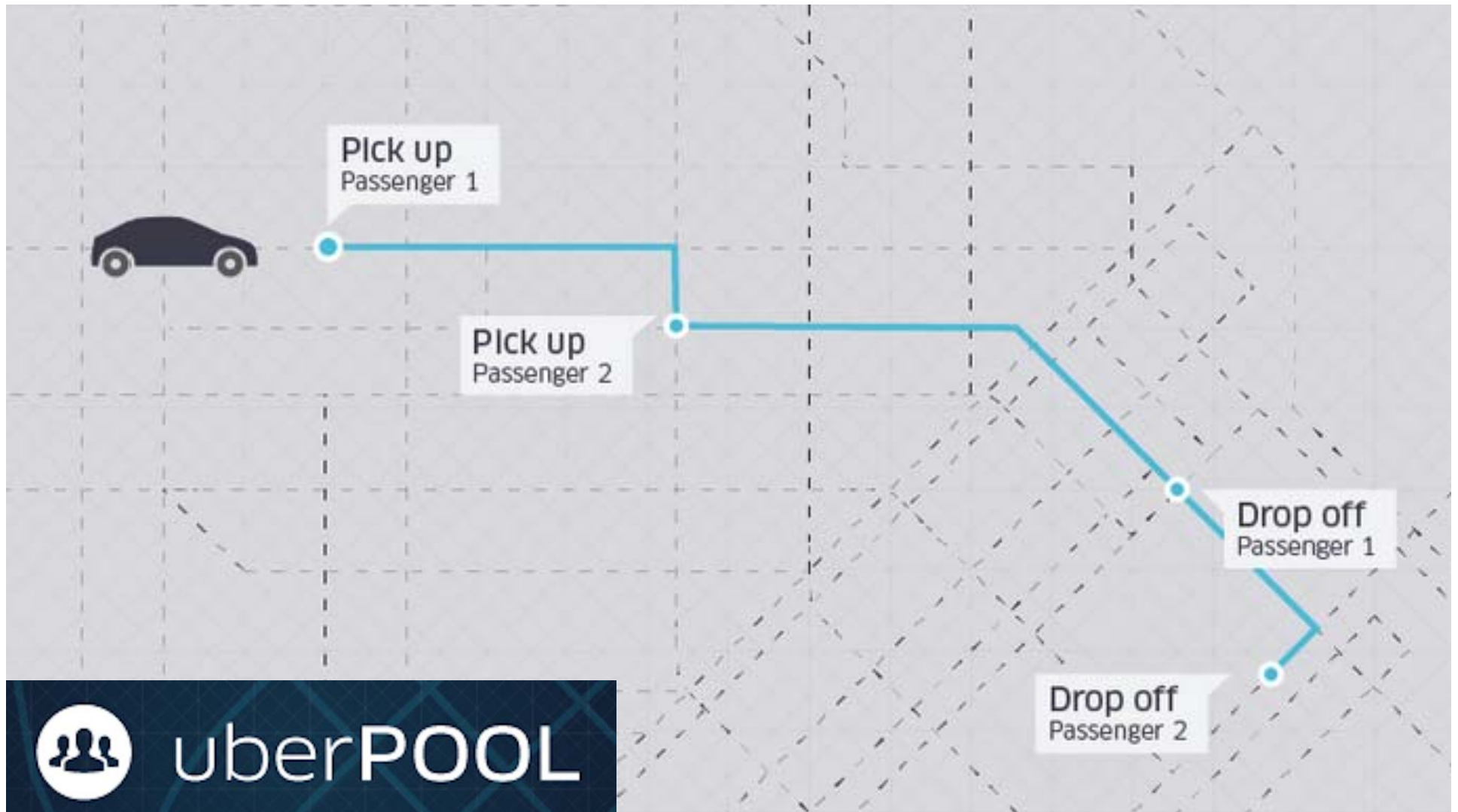
Driverless cars



Source: Google

Raoul Rañoa / @latimesgraphics

Pseudo-public transport



Financial protection & fraud avoidance



On demand & voice activated home delivery



Instacart



Remote telepresence robot



beam[®]
suitabletech.com

Social family robots



<https://www.youtube.com/watch?v=3N1Q8oFpX1Y>

jibo

Enhanced virtual reality experiences



Tech-enabled music therapy



SingFit

VA expands telehealth reach with Philips Hospital to Home



The eICU program has been shown to reduce ICU mortality by **26 percent** and length of stay by **20 percent***

2,000

miles of remote critical care services for veterans in VISNs 23, 15, 10, and 7 served from centralized Telehealth Centers in Minneapolis and Cincinnati.

14

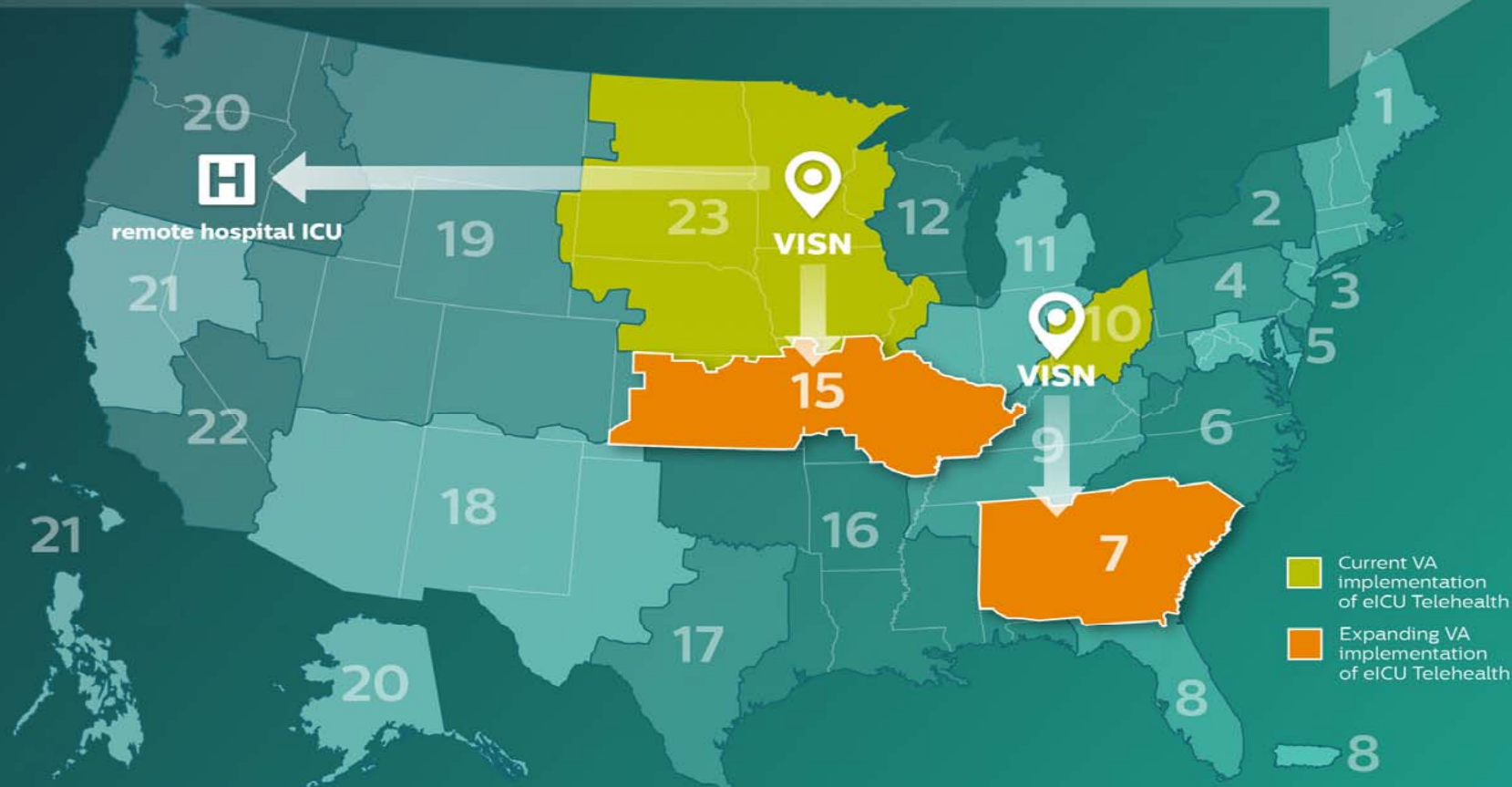
Total states covered by VA eICU Telehealth

1,700

VA sites serve nearly 9 million veterans nationwide

1,800

VA ICU beds nationwide



*A Multicenter Study of ICU Telemedicine Reengineering of Acute Critical Care. Lilly et al. CHEST 2014, Vol. 145, No. 3, March, 500-507



Lessons from Wisconsin...

- 2013 - Wisconsin's Department of Health Services (DHS) introduced MUSIC & MEMORYSM in 100 nursing homes across the state (2014 - expanded to an additional 150 nursing homes).

Results:

- Before the state's Music & Memory Program, across all nursing homes in the second quarter of 2013, 17.4 percent of residents were taking antipsychotics; a year later, use had declined to 14.6 percent.
- In fall 2014, Wisconsin moved from tenth to fourth place among all 50 states in the national initiative to reduce use of antipsychotic drugs in nursing homes.

Key Challenges: Adoption, Design & Connectivity

- 75+ Age Group = 34% internet adoption, 21% use home broadband, 56% use a cellphone (2012 study)
- ‘Abandonment Rate’ , ‘Digital Disengagement & Intimidation’ increase with age > UX Design Challenge / User Centered Design
- **ISSUE:** Poor Connectivity (wireless /high speed broadband /cellular coverage) in rural and low income areas > increases social isolation

Federal, State and Local Govt Solutions:

- Free WIFI access in community-based organizations
- Outdoor hot spots & kiosks that are accessible e.g. former payphones in NY
- Broadband adoption programs that include low-tech older adults
- e.g. OATS / www.seniorplanet.org

A photograph of the Golden Gate Bridge at night, illuminated with warm lights against a dark blue sky. The bridge's towers and suspension cables are visible, and the lights create a bokeh effect in the foreground.

Exponential technology meets unprecedented aging

Breakthrough tech: saving costs & improving care

Our approach: Building a global platform

We address key barriers to innovation in aging
& senior care

Consumer Insights

Access to Pilots

Distribution

Business Models

Funding

A global innovation platform

AGING^{2.0}

Consumer Panel
Challenges
Hackathons

Expo & Pitch for Pilots
Academy
Alliance

Summit
Investor network
Generator Ventures

Global Chapters

Crowd source

Co-create

Capitalize

AGING^{2.0}

A photograph of a sailboat on the ocean. The top half shows the white sails against a clear blue sky. The bottom half shows the blue deck and the white hull of the boat, with the blue water of the ocean in the foreground. A semi-transparent dark blue grid overlay covers the middle section of the image.

AGING^{2.0} AGETECH EXPO

• *November 19-20, 2015*

Annual Conference & Technology Expo

- San Francisco
- Innovation tours, panels and workshops
- Exhibits & networking
- Pitch-for-Pilots

A night-time photograph of the Golden Gate Bridge in San Francisco, with its towers and suspension cables illuminated against a dark blue sky. The bridge's reflection is visible in the water below. The image has a dark, semi-transparent overlay in the center where the text is placed.

Aging2.0: Accelerating Innovation

Crispin Baynes, Advisor, Aging2.0
crispin.baynes@gmail.com
+ 1 646 241 8446

@Aging20

AGING^{2.0}