ALZHEIMER'S DISEASE AND RELATED DEMENTIAS DIGITAL PILOT PROGRAM
Virtual Pitch Competition
May 31, 2024
NACC | Gates Ventures

EFFECT-AD
Everyday Frequent Functional Evaluation with Crosscutting Technology for Alzheimer's Disease

OREGON HEALTH & SCIENCE UNIVERSITY

University of California San Francisco
UCSF Weill Institute for Neurosciences | Memory and Aging Center

SOUTH TEXAS ALZHEIMER'S DISEASE RESEARCH CENTER
UT Health San Antonio — Glenn Biggs Institute for Alzheimer's & Neurodegenerative Diseases | UTRGV UT Health Rio Grande Valley
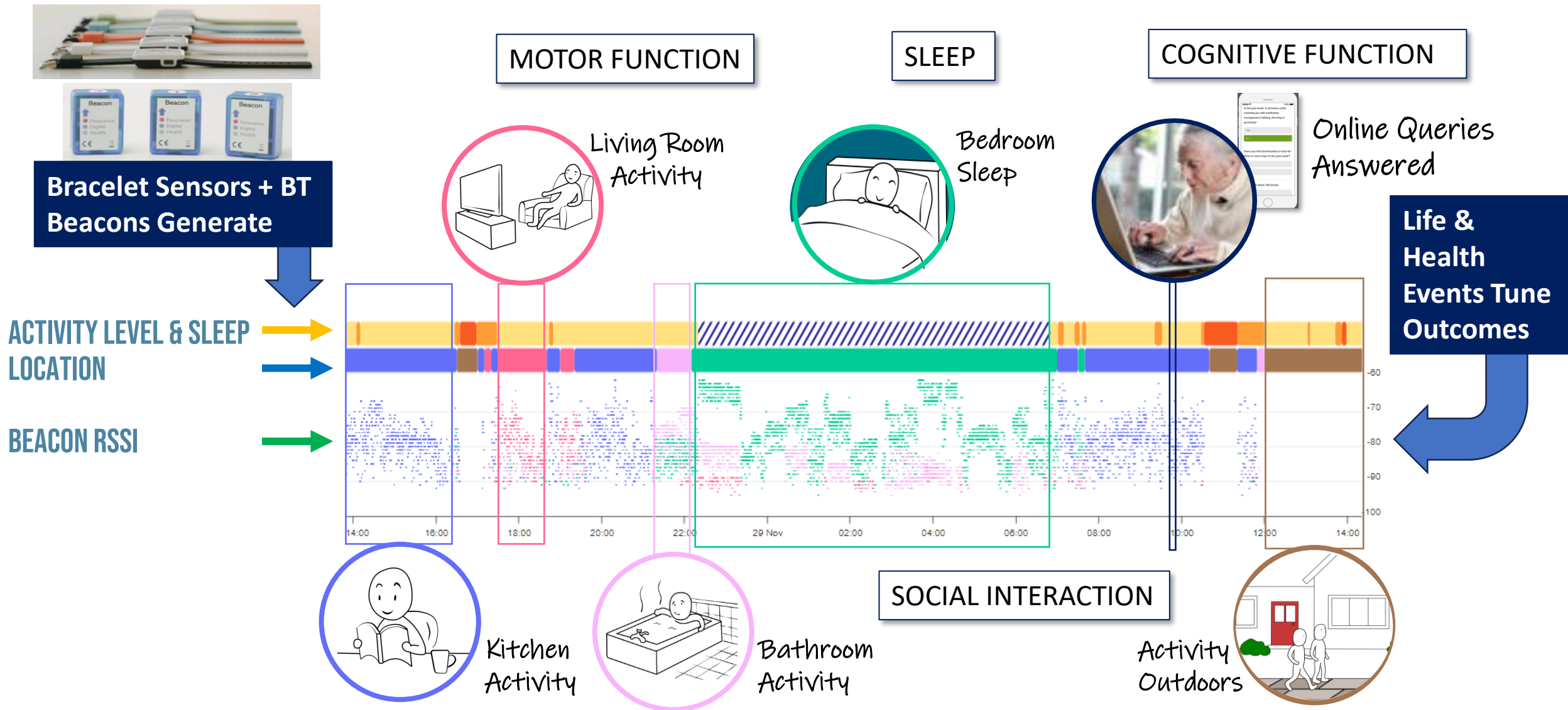
Panoramic Digital Health

IMPACT

We will transform the effectiveness of our ADRD research (and ultimately clinical care and support) by changing the way we assess function.

Using home-based activity sensing and experience sampling will:

- Provide continuous, objective, measures of everyday function
- Accelerate the development of new therapies reducing sample sizes or time to complete trials. This saves time and money.
- Increase accessibility and equity in our research as this person-specific functional assessment can be deployed widely outside of clinic-based settings

OVERVIEW - *The Team*

A collaborative team with decades of experience deploying technology in clinical studies of ADRD

		Jeffrey Kaye MD	Zach Beattie PhD	Michael Au-Yeung PhD	Nicole Sharma BA	Derek Hill PhD	Kate McLeish PhD	Adam Stafforoni PhD	Sarah Horn MD	Patient groups
	Project Management	■			■		■	■	■	■
Clinical	ADRD	■						■	■	■
	Patient Engagement - UX	■								■
	Multi-site Clinical Studies	■			■		■			
	Multi-site Tech Deployment	■	■				■			
	IRB	■					■			
Technical	Algorithm Development		■					■		
	Information Security					■				
	Data Management		■	■			■			
	Data Sharing	■	■	■			■	■		
	Wearable Devices		■			■	■			
Business	Product Management		■				■			
	Risk Management					■	■			
	Scaling a Business					■				
	Med-tech Regulations					■	■			

OREGON HEALTH & SCIENCE UNIVERSITY — OHSU

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FEASIBILITY

WHY THIS IS ACHIEVABLE

- Our remote functional assessment paradigm - proven scalable in >25 ADRD relevant studies including in ADRCs; deployed to thousands of participants including URM
- This experience has provided ready templates for rapid multisite start-up (IRB approvals, contracting, training etc.) and protocols for sustainable follow-up.
- Panoramic system is successfully deployed globally (USA, Europe, Africa).

- **Aim:** To affirm feasibility of adopting our objective functional assessment paradigm using the PDH system across ADRCs
- Our stringent feasibility test - deploy in diverse populations:
  - Low-income older adults with/at risk for MCI
  - bvFTD
  - Mexican American older adults with DLB

https://www.linkedin.com/pulse/elderly-bath-chairs-market-size-assessment/,2024

SCALABILITY

- **Urgent Need – Developing Meaningful Therapies – A Substantial Global Market**
  - Initial target: clinical research including clinical studies of new therapies.
  - Second market: patient management / personalized treatment / risk management.
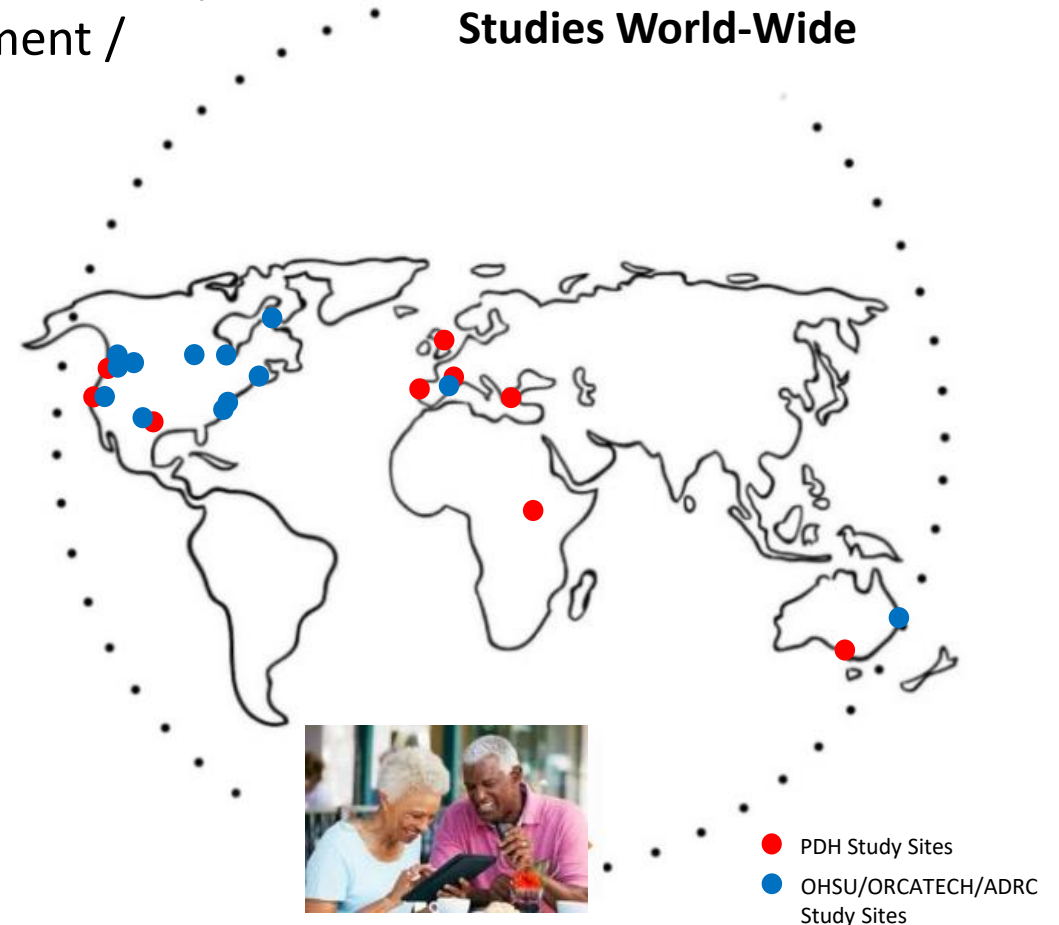
- **Scale-up**
  - Remote assessment paradigm - Easily Deployed
  - Approach already in 5 ADRCs + in PDH studies globally
  - Relevant business expertise:
    - Rapid manufacture ramp up.
    - Clear regulatory path for the DHT to support drug development to medical device; FDA QMS and documentation in place.

- **Sustainability**
  - Unlike with consumer devices, data transparency and access to raw data enables a device agnostic approach.

Studies World-Wide

🔴 PDH Study Sites
🔵 OHSU/ORCATECH/ADRC Study Sites

THANK YOU!

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