

Designing Usable Technologies for Older Adults via Data-Driven Whole-Person User Personas

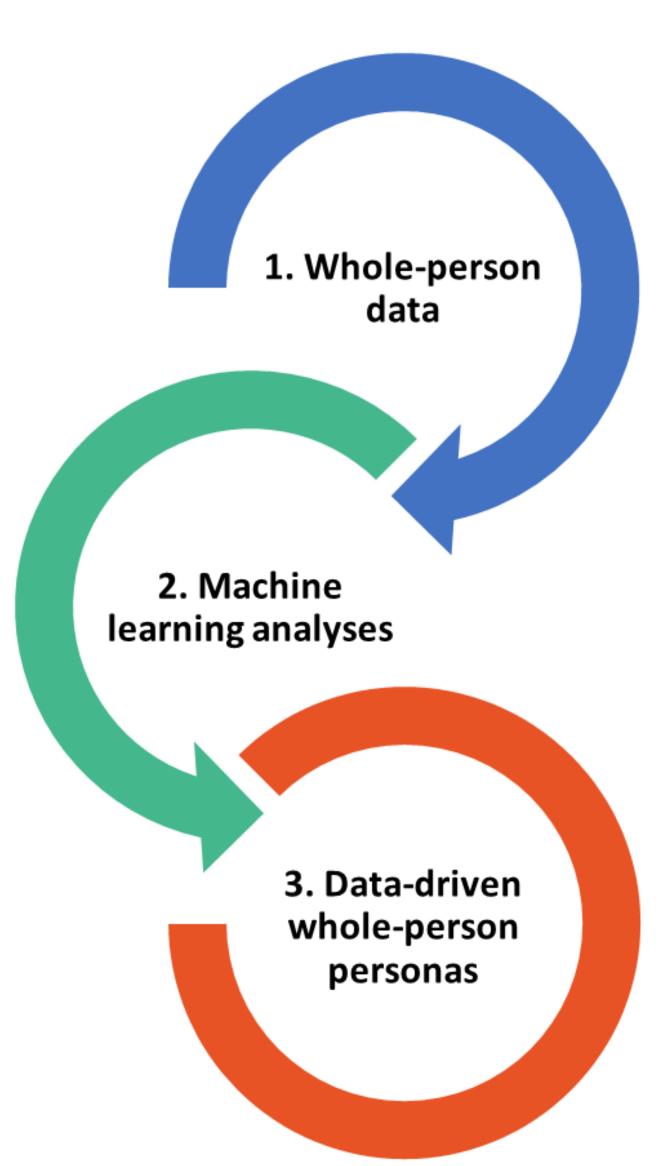
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PennAlTech Healthy Aging Focus Pilot Core



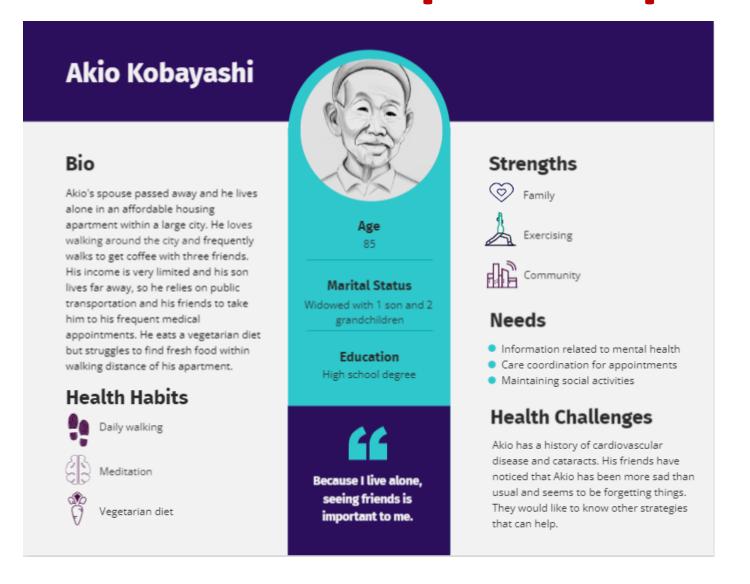
The goal of this research is to use machine learning analysis to examine whole-person health of older adults using consumer-generated health data (CGHD).

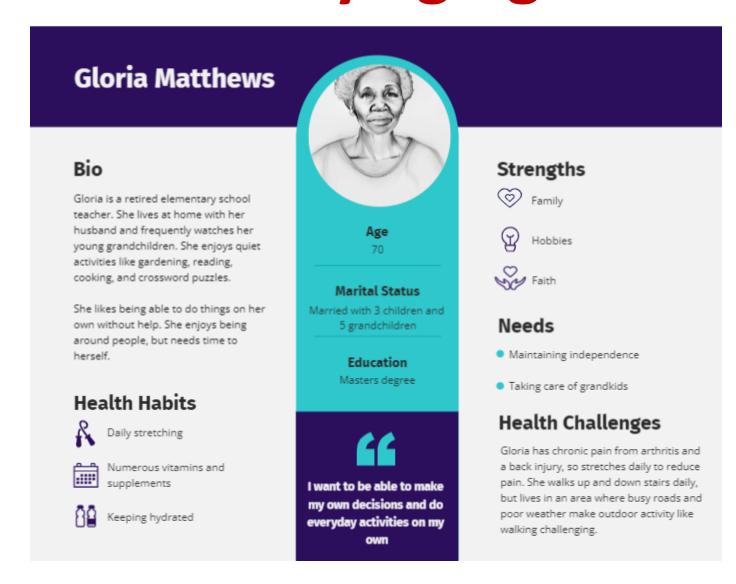
Aim 1: Use machine learning approaches with the CGHD frequently used to develop user personas.

Aim 2: Create a set of data-driven user personas based on the machine learning data analysis to guide future work and the design of novel technologies to support a diverse range of older adults.

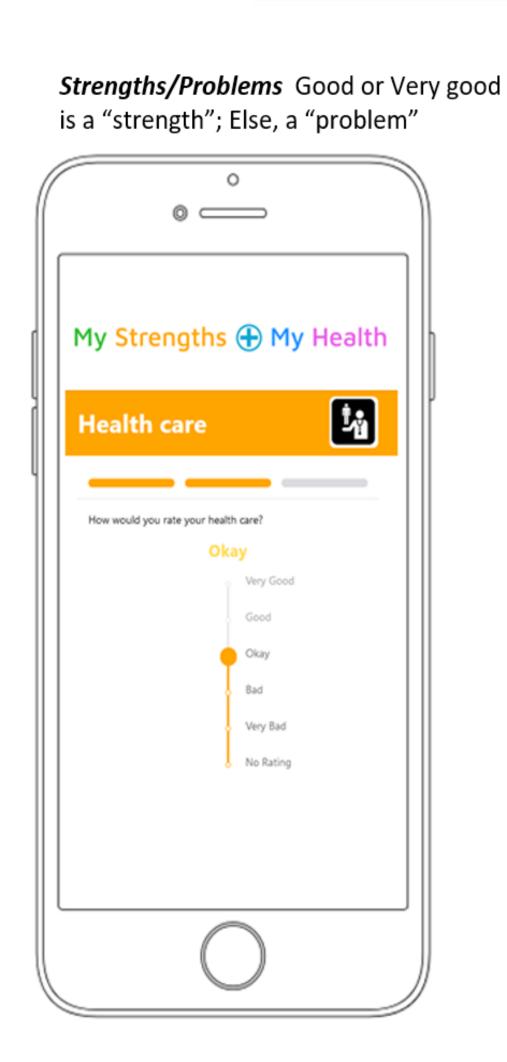


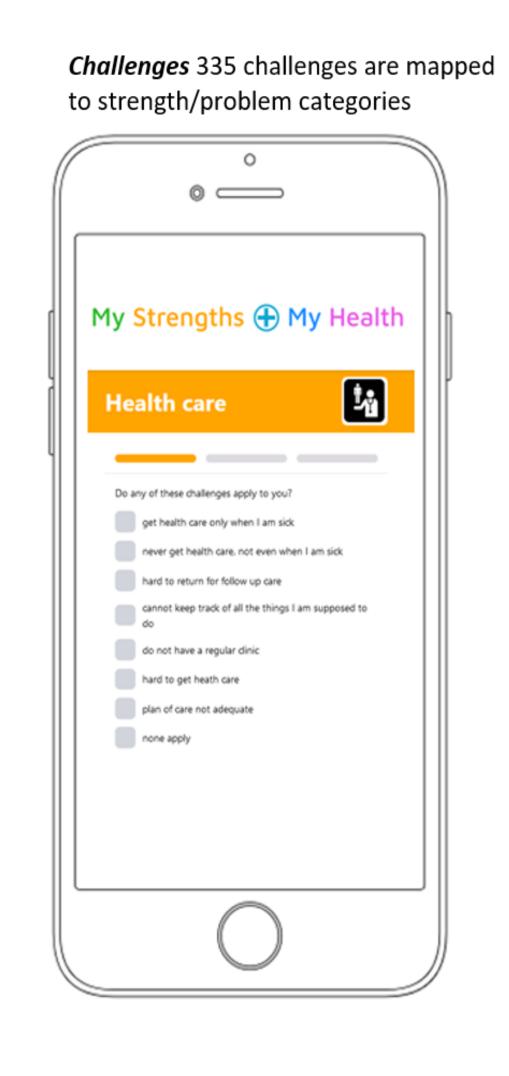
- 1. Whole-person consumer-generated health data takes into account where a person lives, psychosocial components, physical health, and health behaviors.
- 2. Machine Learning Analyses to identify unique clusters of older adults with similar data to one another.
- 3. Data-driven whole-person personas for healthy aging.



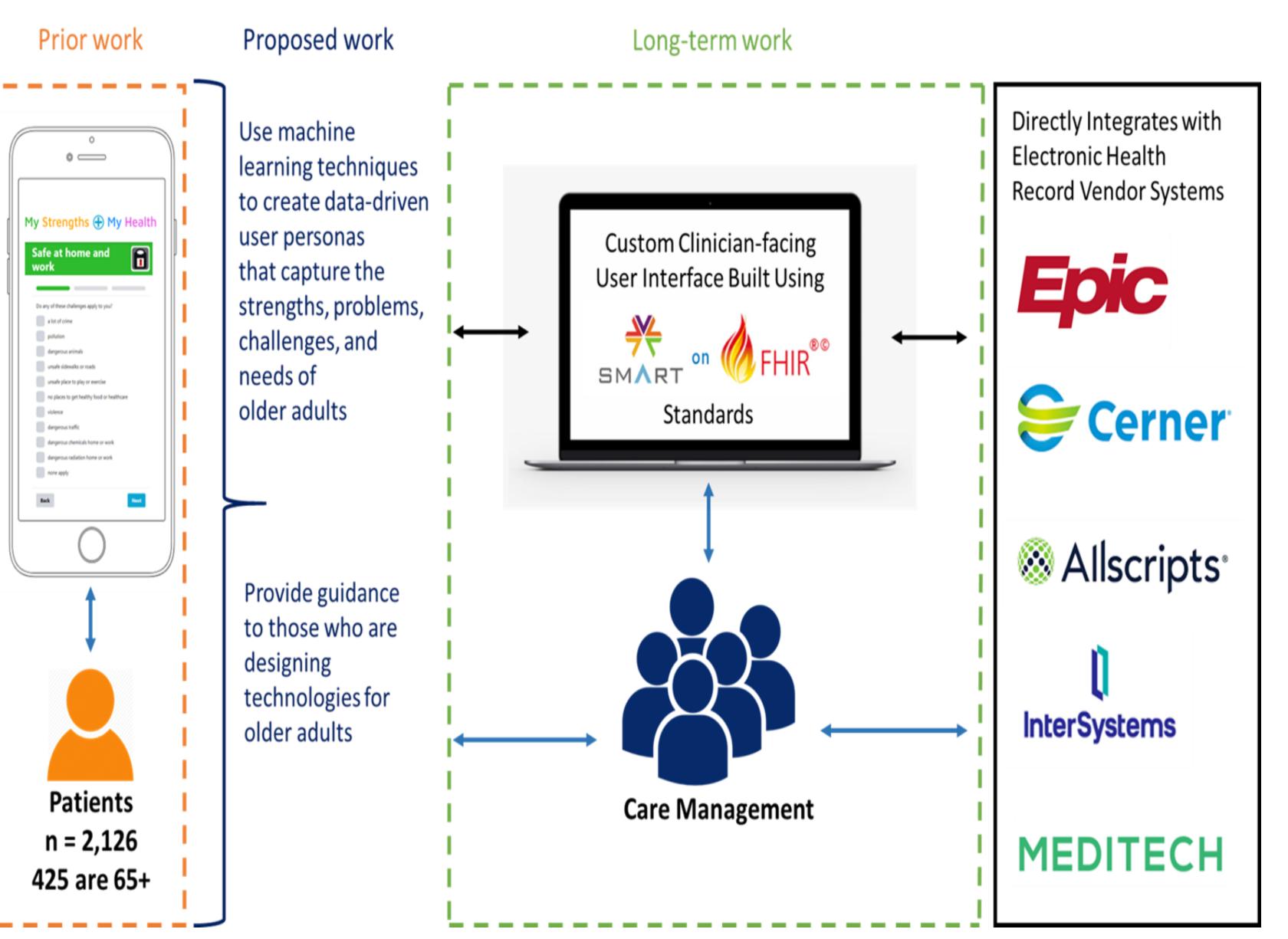


My Strengths (+) My Health









The *long-term goal* of this research is to improve health outcomes by combining wholeperson CGHD with EHR data, to inform clinical conversations, predict patient trajectories, and identify appropriate interventions uniquely tailored to the individual.