

# LIVING PROFILES

Stanford University, Children's Hospital of Orange County, Art Center College of Design and MOTO Development group

## OUR BOLD VISION

LIVING PROFILES envisions a PHR system that is an innovative restructuring of the personal health record to focus the adolescent, caregivers, and their medical team to improve communication and ultimately their health care outcomes including increased quality of life, decreased disease morbidity and mortality, and ease transition into the adult health care system.

From the user perspective: teens are enabled to discuss what is relevant to them, first, their life and aspirations. Our re-envisioned PHR provides opportunities to do this in a way that is inclusive of their condition and treatment. They may do this with themselves, family, friends and health care providers. Encouraging them to participate in the management of their own care by sharing their unique PHR that visualizes and conveys the teen's perception of quality-of-life and wellness.

Thus improving self-efficacy. Teens are also at the forefront of using and advancing technology, always awaiting the next new trend and incorporating it into their everyday routine, and they will likely be the first "adopters" of this holistic PHR. Thus improving dissemination and user uptake. From the medical perspective: the medical team is enabled to personalize treatment in a way that better integrates with teen's goals and needs by the teen sharing personal information that has been captured in the PHR. Thus improving care and reducing costs.

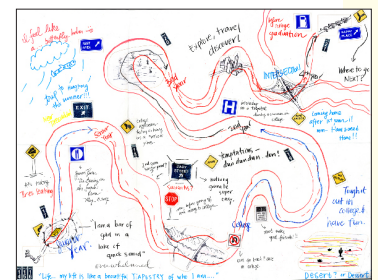
## OUR UNIQUE PROCESS

Living Profiles engages a design-based methodology that spans pre-design research, design research, and ultimately informs design. Our methods provide a clear context for the design research phase and are scalable to include designers from other areas such as technology and product development, as well as researchers from the social sciences, anthropology, medicine, and other disciplines.

**Pre-design research** is defined as human-centered research with the objective to learn about a particular population in order to identify opportunities for meaningful and relevant design intervention. Our research utilizes the "probes" methodology in combination with in-person interviews and begins by inviting participants to engage with a particular activity—a cultural probe—which could range from a highly directed to very interpretative exercise.



Teen co-creation workshop session



A future map provided by "Mary"

**Design research** is informed and inspired by insights from the human-centered research. Rapid design iterations are used to gather patient feedback early on whereby creating a dynamic creative process throughout the prototype phase. The goal is to narrow and define optimal design solutions within weeks. This is accomplished through several stages of primitive prototyping that start with simple forms and evolve into more developed systems that include functional features and experience models.

For the Pre-Design component Living Profiles worked directly with a total of 32 adolescents (14- to 18-years-old). Subjects engaged with probes from 2 sites: the 15 participants from Children's Hospital of Orange County's Hematology Clinic included 6 females and 9 males, and the 16 participants from Stanford Pediatric Rheumatology Clinic included 11 females and 5 males. Eleven participated in in-home interviews (6 females and 5 males) and 8 invited a "healthy" friend to be interviewed with them for a total of 19 adolescents (11 females and 8 males).