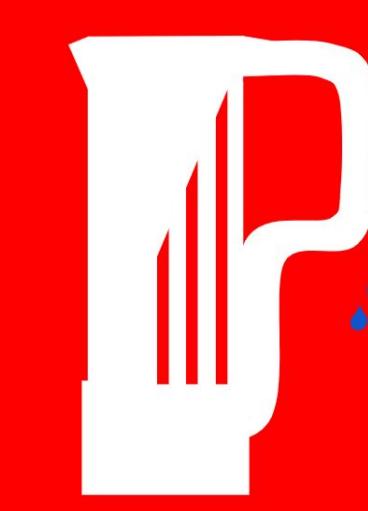


# WATERFÜL

A pitcher empowering independence and health

— kulmayk.com —



## Motivation

"One recent study found that 31% of Long Term Care residents were dehydrated"

-Noll Physiological Research Center, PA

"Adults older than 65 have the highest hospital admission rates for dehydration"

-UCLA School of Nursing study



As we age, we begin to lose our sensation of thirst.

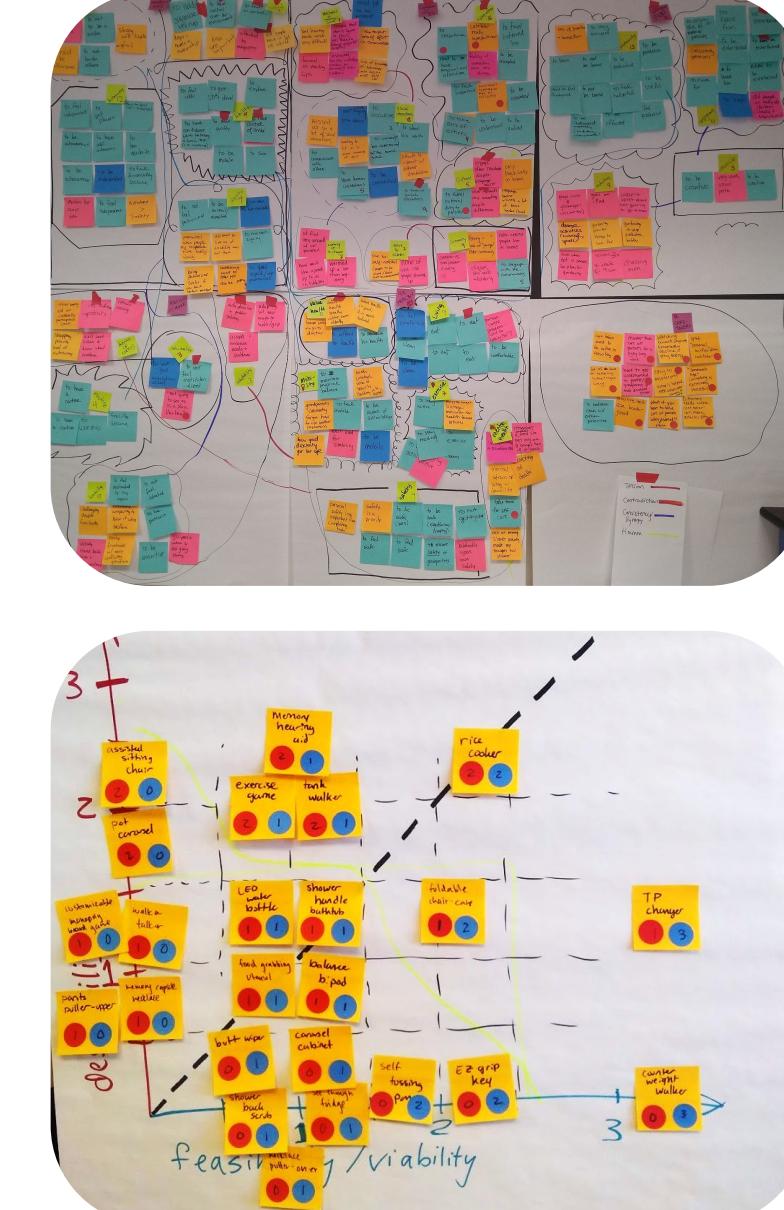
Disorders such as **Alzheimer's** and **Dementia** can accentuate this feeling, leading dehydration to be one of the leading causes for hospitalization.

**Waterfül solves this problem.**

Serving as an easy-to-use and passive centerpiece in the room, Waterfül uses organic, gentle reminders to stay hydrated.

## Empathy & Exploration

Our goal was to design **an experience** - this meant **talking to people and empathizing**.



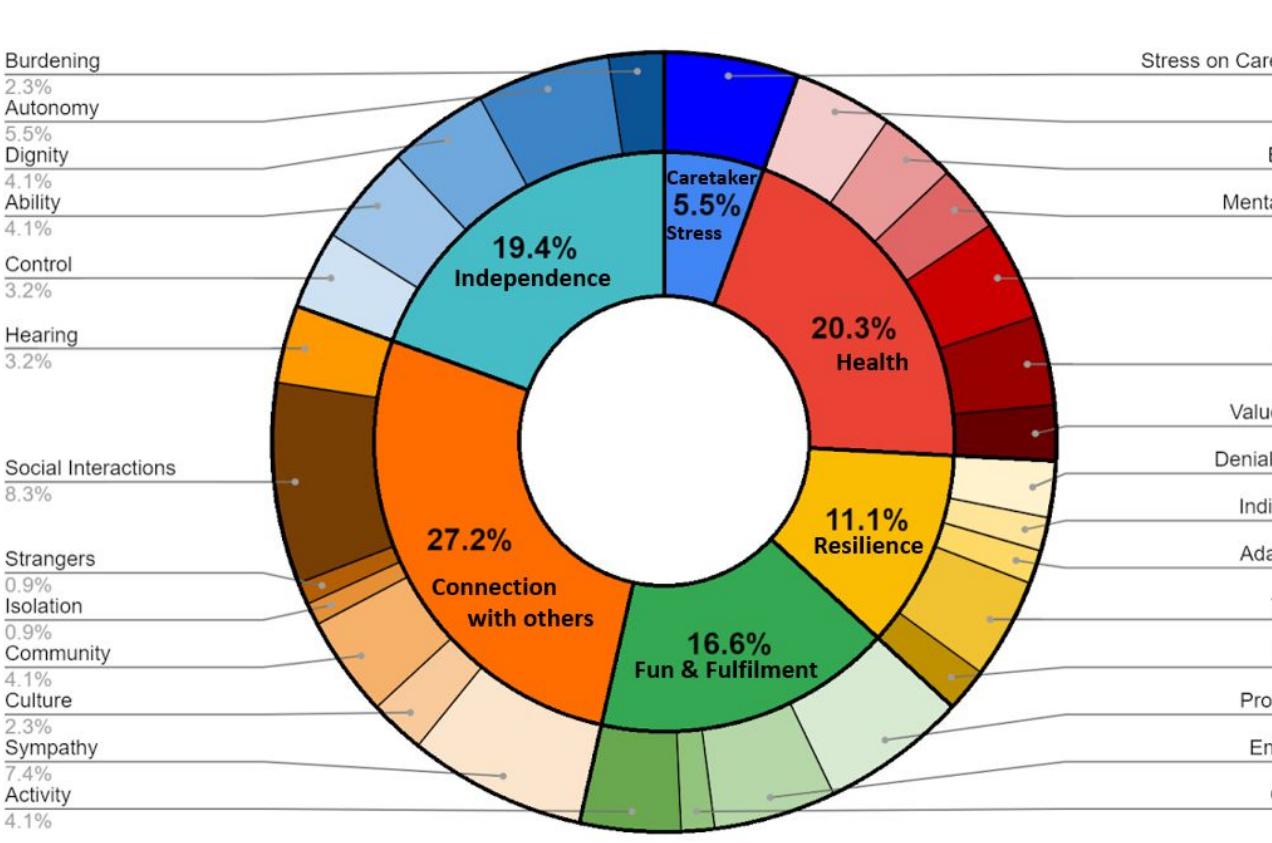
**242**  
Emotional Data Points

Field Work

Unpacking

Data Points

Learning

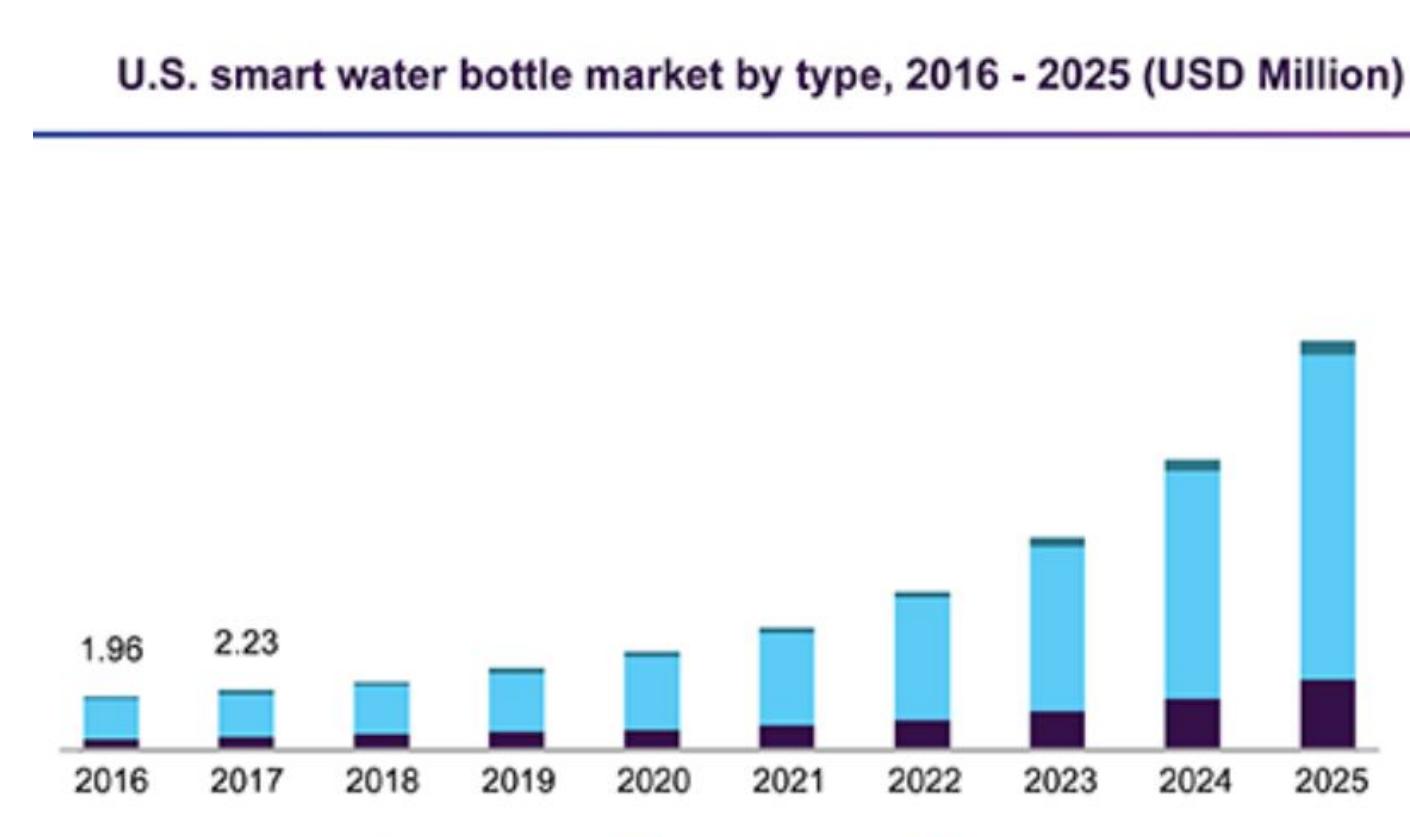
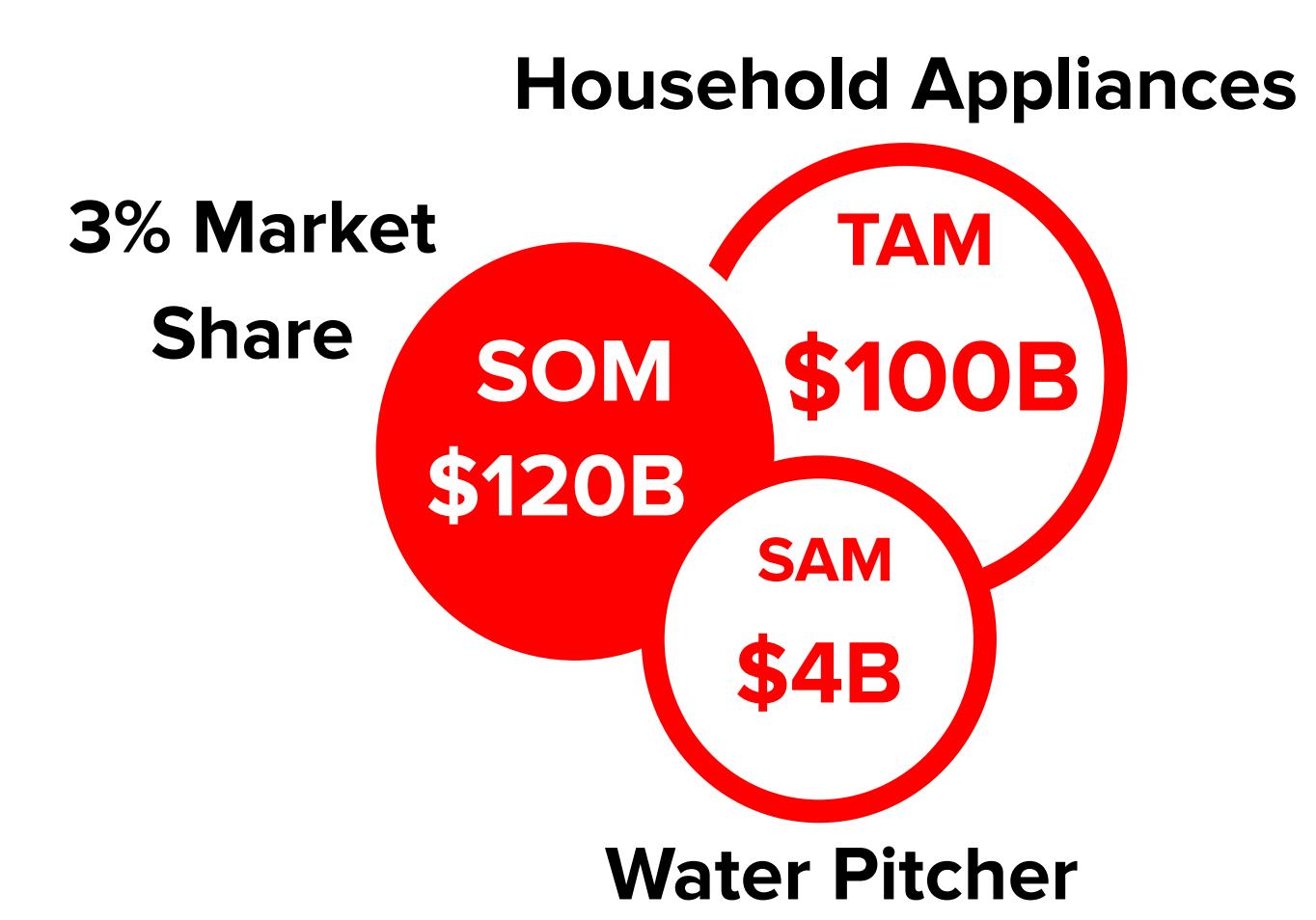


### Pain points:

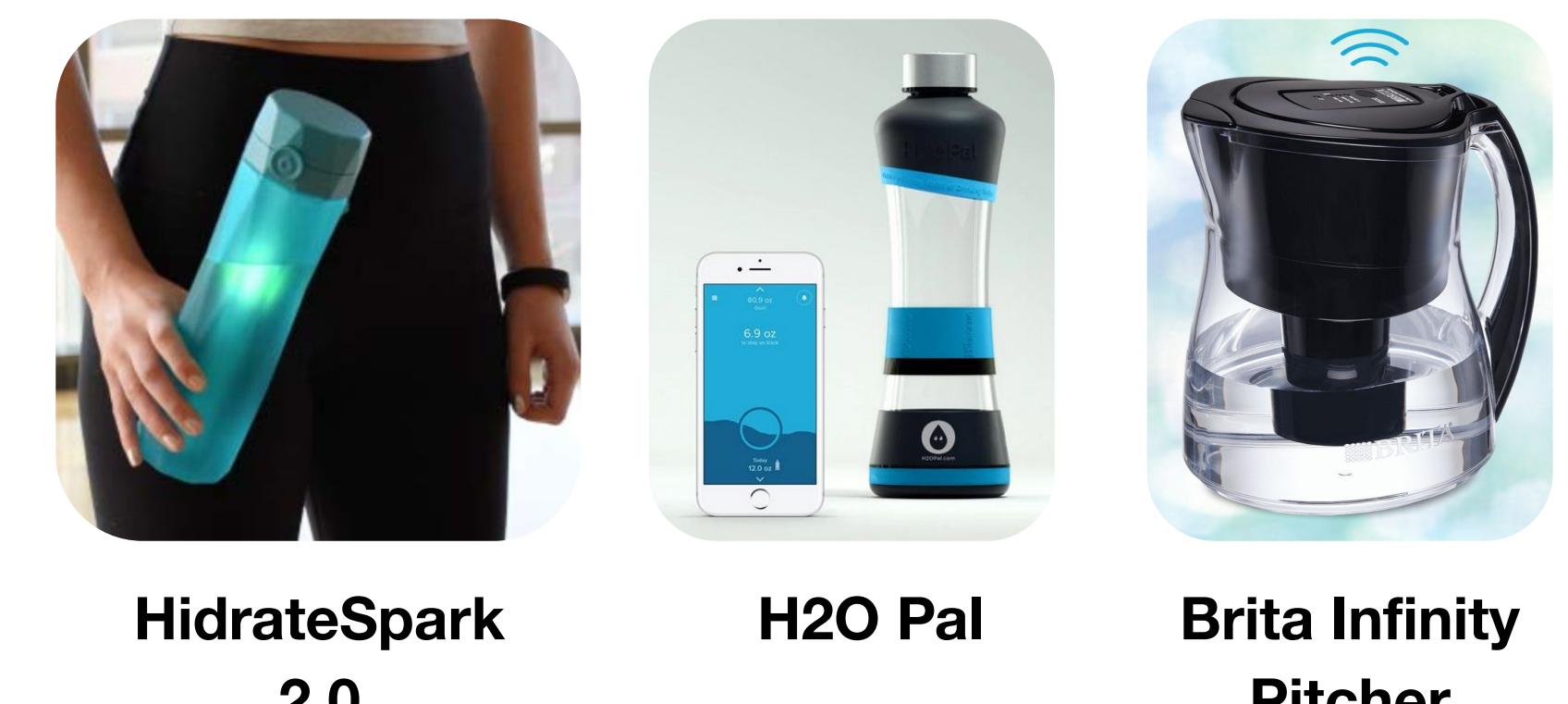
- Sense of community
- Accessibility & convenience
- Taste of water

## Market Analysis

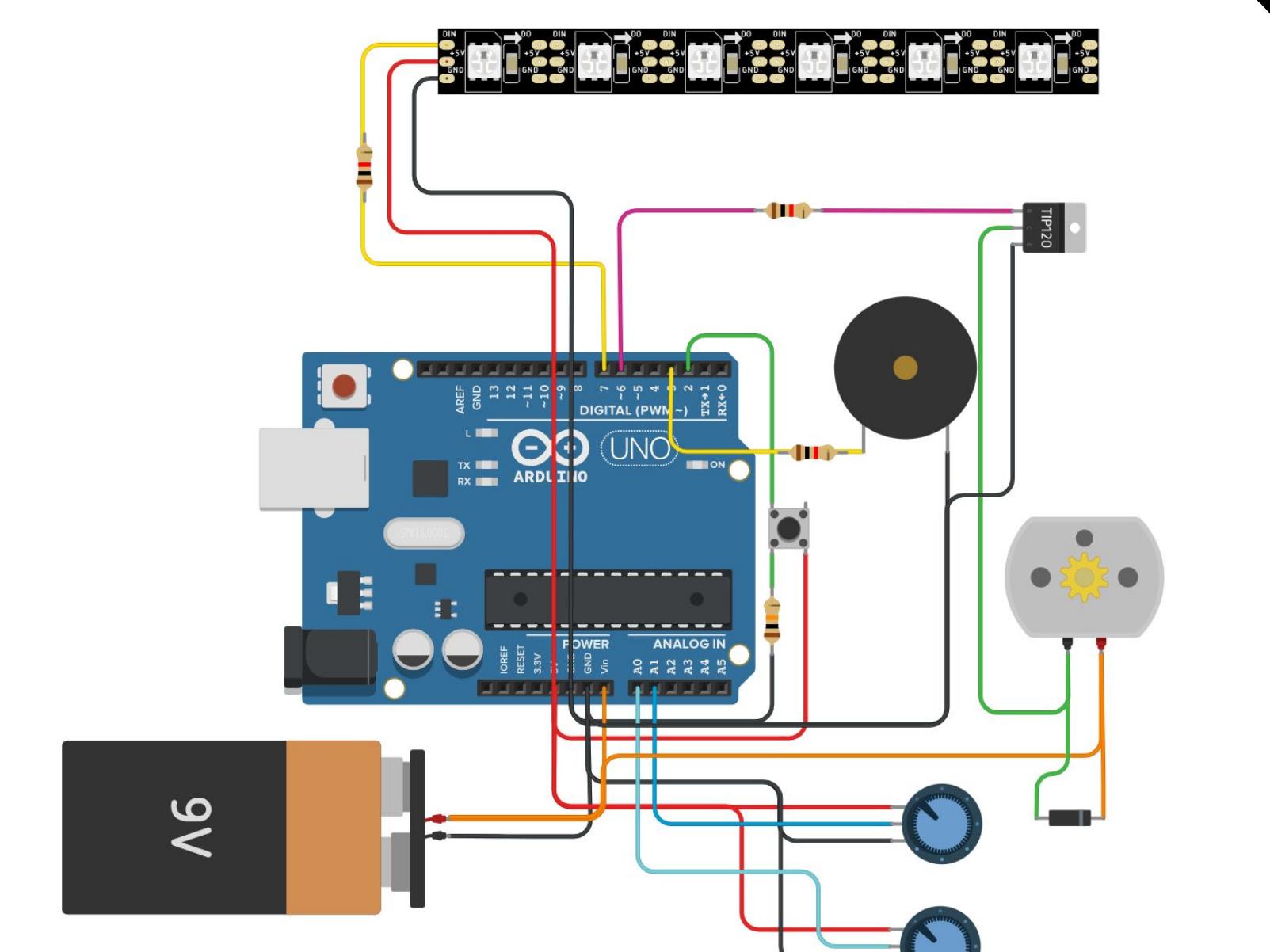
### Market Potential



### Competing Products



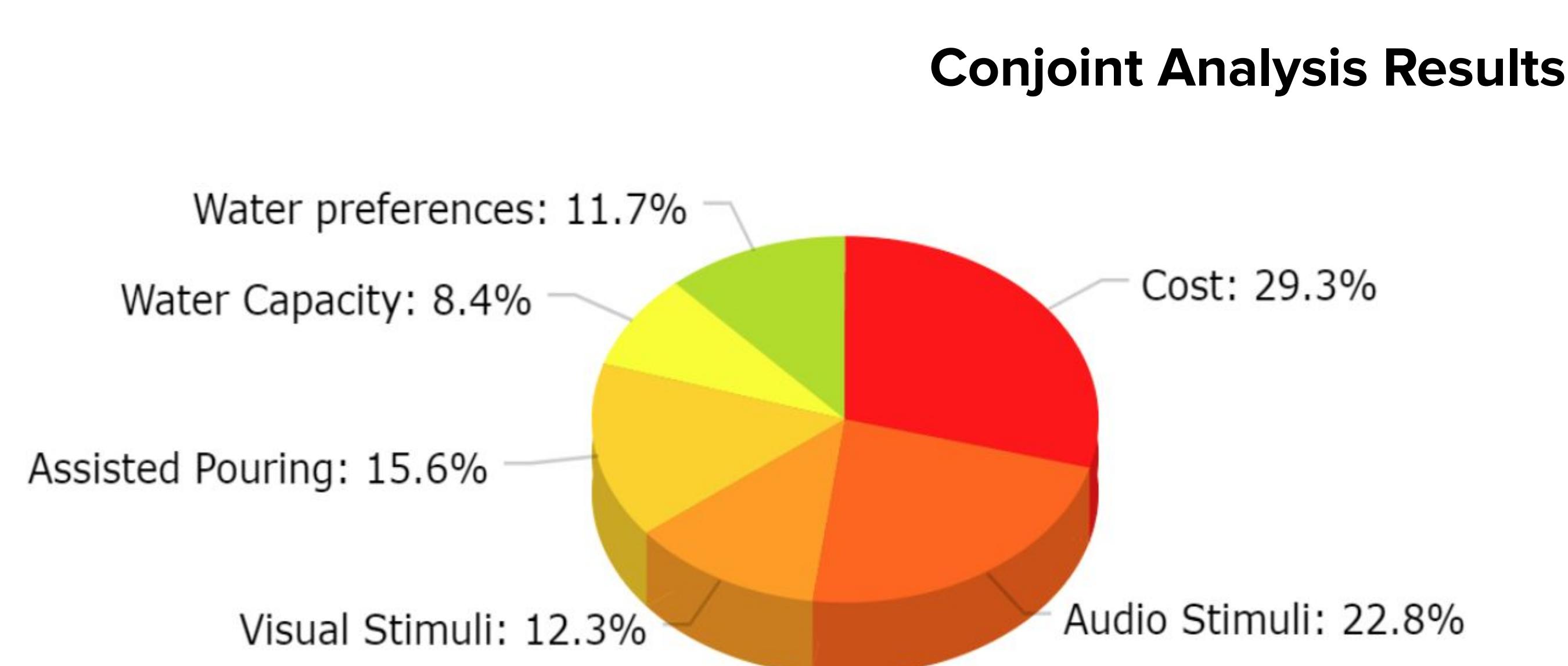
## Prototyping



**Prototype 0**  
Developing form of pitcher, housing for electronics, and conceptualizing function of water flow

**Prototype 1**  
Functional electrical systems in a larger body with more space affordance

**Electrical System**  
Powered by a 9V battery. Arduino controls lights, pump, and sound. Potentiometers can tune settings.



- Cost → Up to \$50
- Audio Stimuli → Tunable, or soft natural sounds
- Assisted Pouring → Pump water to cup
- Visual Stimuli → Tunable, or "heartbeat" style
- Water Preference → Temperature and taste