35 Million seniors take daily medication
  • 51% take at least five prescription medicines
  • 57% admit to missing doses

Accessibility
  ◦ Dexterity
  ◦ Vision

Memory

Accountability
Features

- Automation
  - sorts pills according to daily dosage
- Accessible
  - portable container refills at home dock daily
- Memory
  - alarms for customer
- Accountability
  - compliance notifications for caregivers
Sketch Model
Critical Problem

- Sorting
  - How do we pick up one and only one pill?
Concept Design

- **Sketch model**
  - Pills poured into hopper with agitator
  - Vacuum wheel attracts and picks up one pill
  - Wheel revolves to remove single pill from the bunch
  - Pill is cleaved from the wheel and sorted to the proper tray

- **Moving on**
  - Pills inside of wheel to reduce vacuum required
Market Research

Historical & Projected Annual Prescription Drug Expenditure, 1965–2020 (US$ Billion)

$512.6 billion in 2020

$275.6 billion in 2011
Competitors

**e-pill:** Manufacturer and distributor of electronic medication reminders

Automatic Pill Dispenser Organizer

$289.95

**MedCenter Systems:** Manufacturer of monthly planners and organizers

31 day monthly pill organizer

$69.95
Questions ?