Tenzёch

AM Team 10 | Jeff Li, Tyler Parker, Ishani Spanier, Kotoe Takeda, Eric Shen, Akshat Karwa
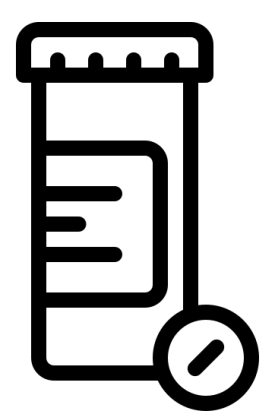
Easy-Read Medical Expiration Dates

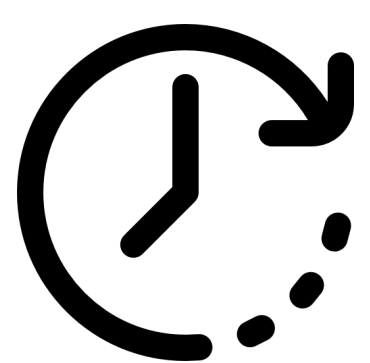## How might we reduce hospital waste and improve quality of medical care?

The Problem in Numbers

4.7 million tons of medical supply waste are generated annually

24% of hospital workers have **used expired products** before
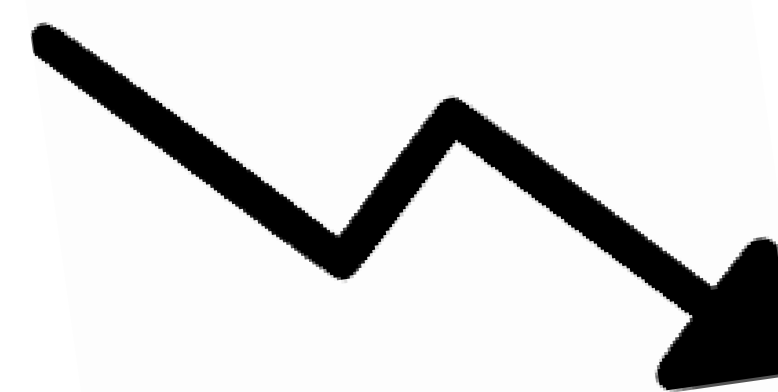
18% of patients have **incurred harm** as a result of expired products

Experiment & Results

We prepared two groups of supplies: one with printed labels, and another with color-coded and printed expiration labels. Volunteers were asked to sort each set.

32%

We saw a **32.3% decrease** in the time to sort out the **color-labeled supplies.**

Existing Solutions
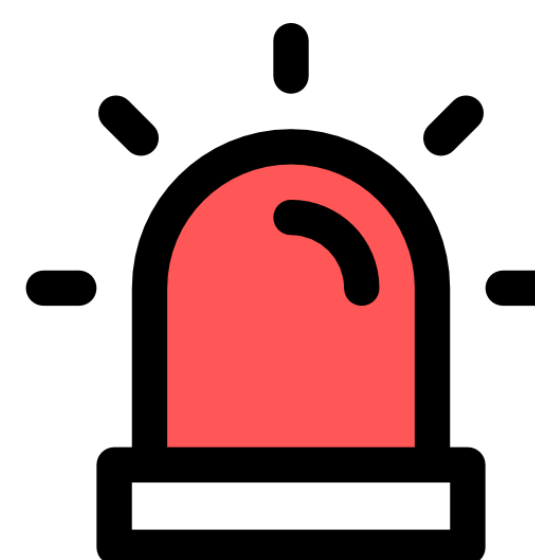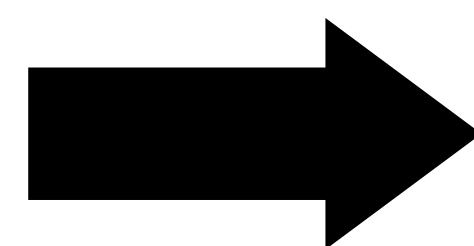
Printed Expiration Labels
Consistent, but expiration dates are not easy to discern at a quick glance or in a rush

Inventory Management Software
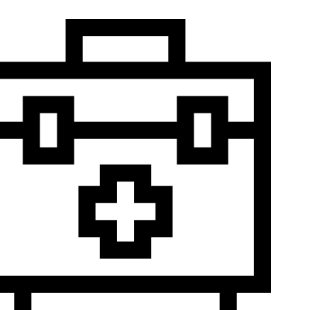Intended for macroscopic inventory management, instead of item evaluation

We will make it **easy** to tell **at a glance** whether supplies are **expired or need to be prioritized**.
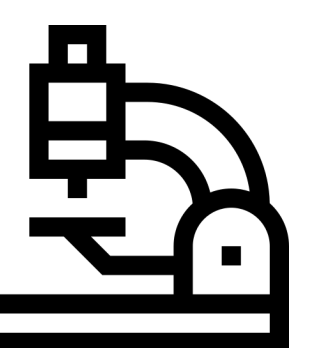
2005-06-30

Early Adopters

Small Clinics
Outpatient clinics, such as urgent cares, veterinarians, dentists, and other specialists
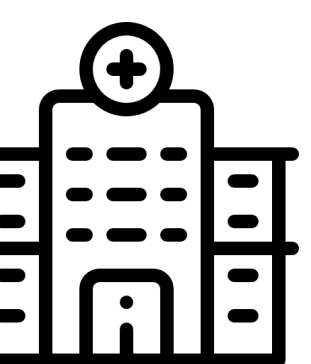
Research Labs
Similar inventory management needs, with a lower-risk environment

Hospitals
Slower moving and more difficult to penetrate, but much larger market space
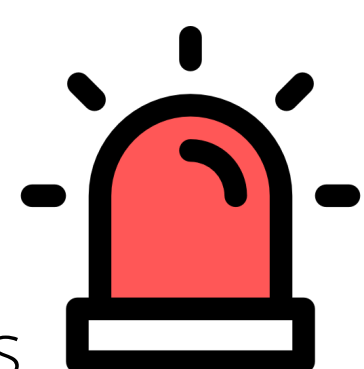
LED-Enabled Expiration Labels!

Benefits

Optimization
In standard conditions, workers will be able to easily prioritize soon-to-expire items over newer ones
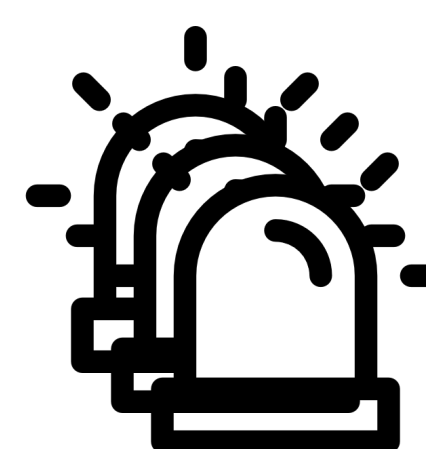
Quick Readings
In rush situations, LEELs are a bright indicator of expired items
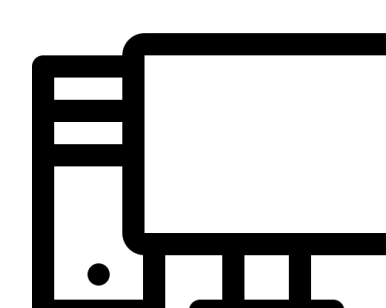
Business Model

Asset Sale
LEELs will be sold as individual rechargeable, long-life units - ideally for under $1/unit
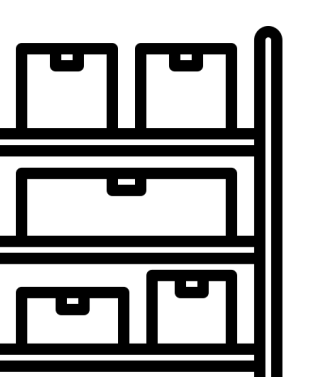
Subscription
We will also provide a software management system to reprogram and monitor LEELs

Other Ideas

Smart Shelves
IoT-enabled shelves that can share inventory data with a central system

Chemical Labels
Same concept, but cheaper and temperature sensitive - think of iron rusting over time.