

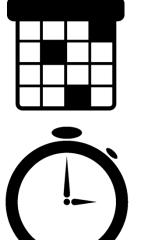
# Customer Problem



Water filtration pitchers can significantly improve the taste of tap water.

However, pitcher owners must replace their filter every 2 months. Most don't. Here's why:





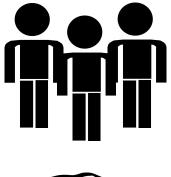
They don't know when to replace.



They don't have time to buy new filters.



They lack transportation to reach retail locations selling filters.



They share filtered water and are unwilling to purchase new filters for the group.



They forget to buy filters when at the store.



They are unsure how to dispose of expired filters.

## Customer Research

**350+** Survey responses

50+ Interviews

1 Focus group

2 Websites w/analytics

3 Social media campaigns

### Key Learnings & Facts:

- Filtration pitchers are the most popular type of inhome filtration product (~60% of POU users).
- Brita dominates the pitcher market (>80% of users).
- Filtration pitchers are very popular with collegiates.
- Less than <sup>1</sup>/<sub>4</sub> of surveyed pitcher owners replace their filter within the recommended time frame.
- Only 8% of surveyed filter owners recycle old filters, but most would pay \$2 more for a recyclable filter.

By bringing replacement filters to the customer, DROPcycle helps consumers overcome traditional inhibitors to regular filter replacement and recycling. DROPcycle targets college campuses and other areas where tap water quality is poor, water filter use is high, delivery is feasible, and sustainability is valued.



## . Order

Customers place orders and receive confirmation via text message.

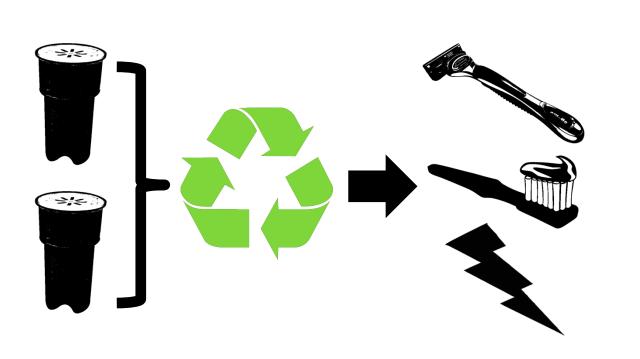
### 4. Transaction Customers pay courier for new filters,

provide expired filters for a discount.



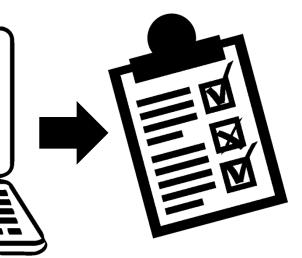
2. Process and used to plot delivery routes.

5. Recycle



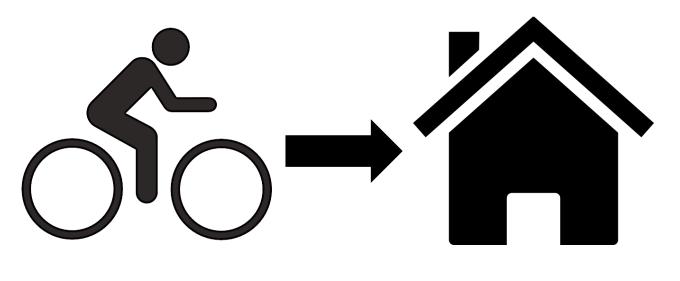
Financial	
Revenue	\$36,673
COGS	<u>\$19,956</u>
Gross Profit	\$16,717
Fixed Expenses	
Marketing	\$6,830
Employee Hourly	\$2,302
Fees/Taxes	<u>\$549</u>
Annual Profit	\$7,036





Orders are aggregated, organized,





3. Delivery **DROPcycle couriers efficiently** deliver filters by bicycle.

6. Repeat Every two months, customers are reminded of need to replace filter.





Annual5000 customers

Environmental		
Landfill diversion	7.5 tons of waste	
Energy generation	4.3 MWh	
Avoided virgin polypropylene production	<ul> <li>54% less water</li> <li>64% less GHGs</li> <li>46% less electricity</li> <li>77% less natural gas</li> <li>48% less coal</li> <li>75% less oil</li> </ul>	
Bottles avoided	7.68 million bottles	





# Environmental Problems

### Plastic Waste



30 billion water bottles enter landfills each year, where they take thousands of years to decompose.<sup>1</sup>



Only 3 to 5 percent of #5 plastic is recycled in the municipal solid waste stream.<sup>2</sup> Polypropylene filtration products reduce bottle waste, but few cities recycle this material.

### Broken Recycle Loop





- 1) Deposit used filters in one of 200 "Gimme 5" recycling containers, or...
- 2) Pay \$5+ shipping to mail expired filters to an authorized recycling facility.

<sup>1</sup>U.S. Government Accountability Office. http://www.gao.gov. 2011. <sup>2</sup>U.S. EPA. Municipal Solid Waste in the United States: 2009 Facts and Figures.

## Pilot Study

### Launched: January 9<sup>th</sup>, 2012

Service area: Isla Vista, CA + UCSB campus Goals:

- Identify effective marketing strategies. - Determine acquisition and retention costs. - Improve operational efficiency.
- Marketing Strategies: Website, Facebook, Twitter, AdWords, face-to-face, promo stickers, pitches **Key Learnings:**
- Back-end operations are simple and seamless
- In-person marketing is effective, but inefficent
- Delay exists between impression and conversion

### Acknowledgements

- For their insight, guidance, and support throughout the entrepreneurial process: - <u>Group project advisors</u> – Emily Chan and Gary Libecap
- Bren School faculty & instructors Trish Holden, Arturo Keller, Brandon Kuczenski - The Eco-E Advisory Council and our fellow Eco-E group project participants - Our ever supportive friends, families, and significant others