

Plenary #2

Using Zero Waste Solutions and Technology to Divert Reusable Furniture from Landfills

Speakers:

Stacie Johnson
Dan Kershaw
Joshua Mastromatto

Moderator: Mary Lou Van Deventer





Mary Lou Van Deventer

Co-Owner
Urban Ore
(Moderator)

Plenary #2 – Using Zero Waste Solutions and Technology to Divert Reusable Furniture from Landfills







Stacie Johnson

Sustainability Manager Goodwill of the Heartland

Plenary #2 - Using Zero Waste Solutions and Technology to Divert Reusable Furniture from Landfills





Dan Kershaw

Executive Director Furniture Bank

Plenary #2 – Using Zero Waste Solutions and Technology to Divert Reusable Furniture from Landfills







Joshua Mastromatto CEO Rego

Plenary #2 - Using Zero Waste Solutions and Technology to Divert Reusable Furniture from Landfills









Zero Waste in Iowa

Stacie Rae Stoffel-Johnson Sustainability Manager, TRUE Advisor Goodwill of the Heartland, Cedar Rapids, IA



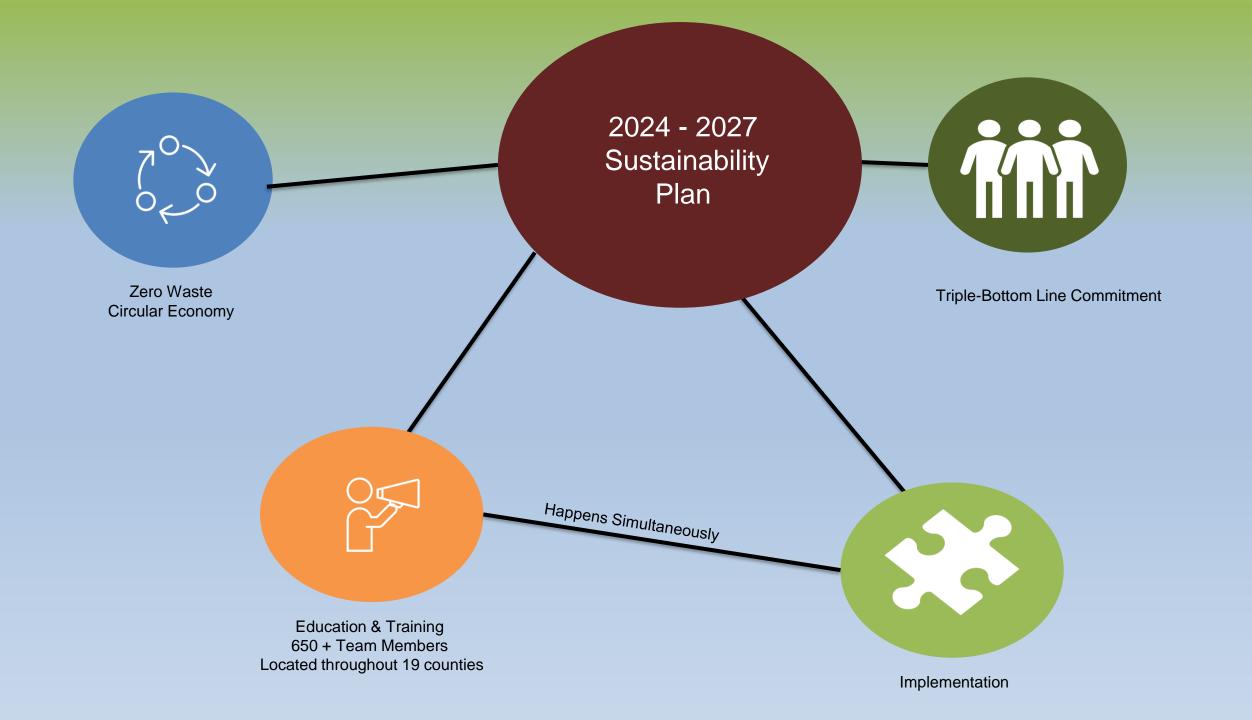
Sustainability Vision

Goodwill of the Heartland aims to be a **zero-waste** organization that benefits our people and our planet.

Goodwill of the Heartland

Net-Zero
Community-Based
Locally-Led
Social Enterprise

Zero-waste depends on all of us keeping this promise, to ourselves & the communities we serve on the daily.





June 2023 – February 2024

Baseline Data Collection

Material Characterization Study

Sustainability Plan

Lowest Hanging Fruit

March 2024 – December 2024

Education

Low Hanging Fruit







PLAS

SNACK

CANDY

USED

PLAST

ZIPLO

1. FLA

3. GW

3. GW











January 2025 & beyond

Plastic Reuse - Recycling

Glass Reuse- Recycling

Textile Traceability & Transparency

Artificial Intelligence

Federal Regulations

Merchandise Analysis

Academic Research



Federal Regulations: Household Hazardous Materials



Hazardous waste



Universal waste

Furniture Donation Acceptance Policy

Space Constraints

Market Demand

Condition and Quality

Logistics and Handling

Storage and Inventory Management

Profit Margins

Local Competition

Community Needs

Operational Costs

Customer Experience



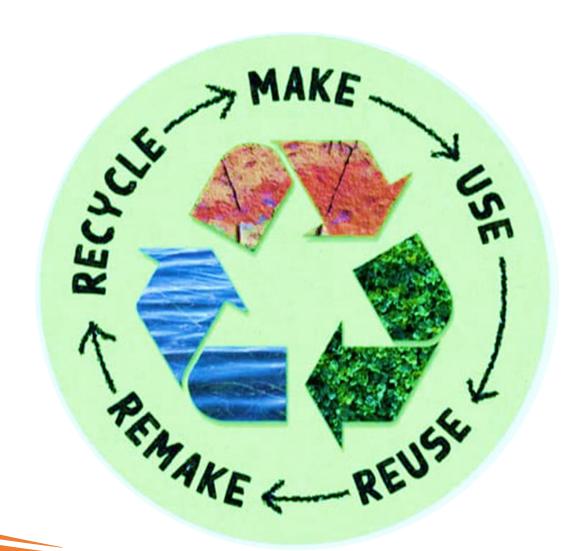
Biogas, Biofuels, and Biochar

Pyrolysis and Depolymerization Studies

Catalytic Conversion Research

Fuel Quality and Analysis

Waste Management Perspectives







FURNITURE BONK



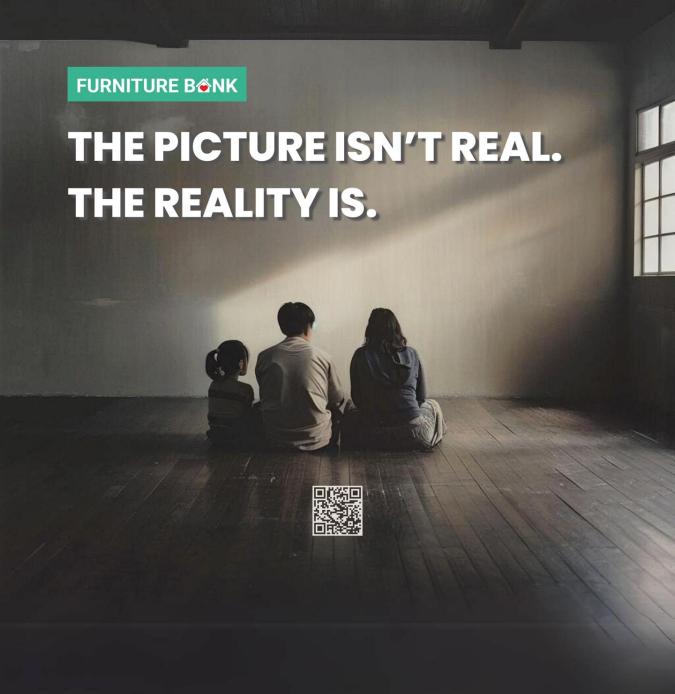
From Pilot to Impact:
Scaling Zero-Waste Solutions
in Furniture

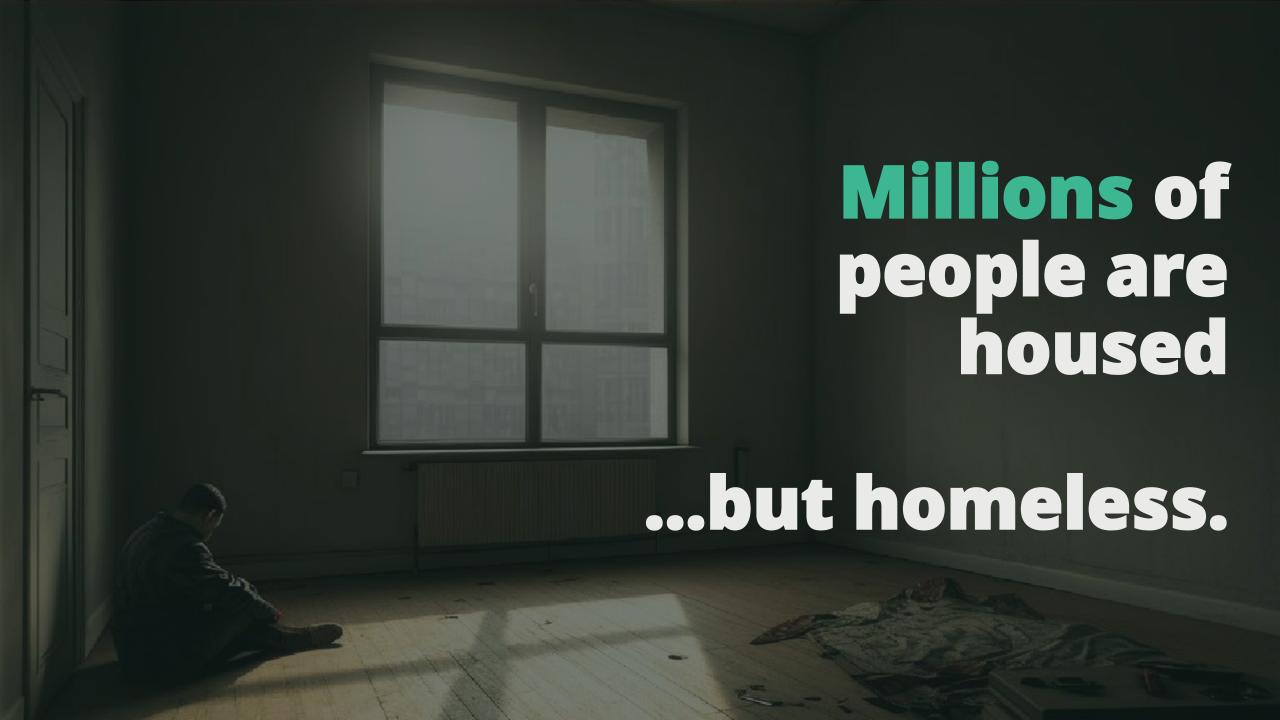
Speaker:

Dan Kershaw



Truths for your Community





Furnishings are the third most expensive purchase that you make in your life!

(preceded by a **house and a car**). (excluding children ⓒ)

FURNITURE B⊗NK





Who loves moving furniture?





Truths for Retailers



No perfect solution for retail

Disposal Option?

Destroy in Field

(Incineration)

Landfill

(Junk It / Dump It)

Secondary Markets

(Liquidation, Discounting & Re-commerce)

Thrift Stores

(Private & Nonprofit Secondary Markets)

Donation

(Charities)

Brand Risk? CSR/ESG? Who Pays? **Who Transports?** Costs? Volumes? Revenues?

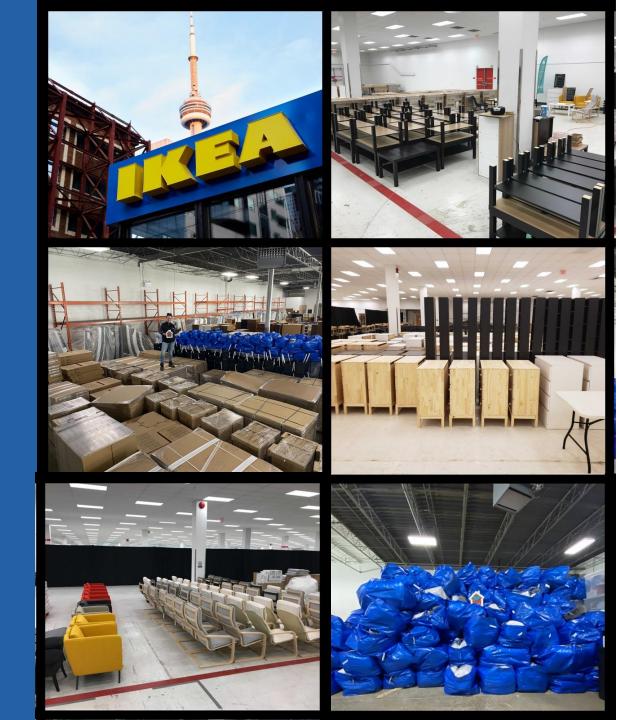




IKEA Canada & Furniture Bank's

Circular Model







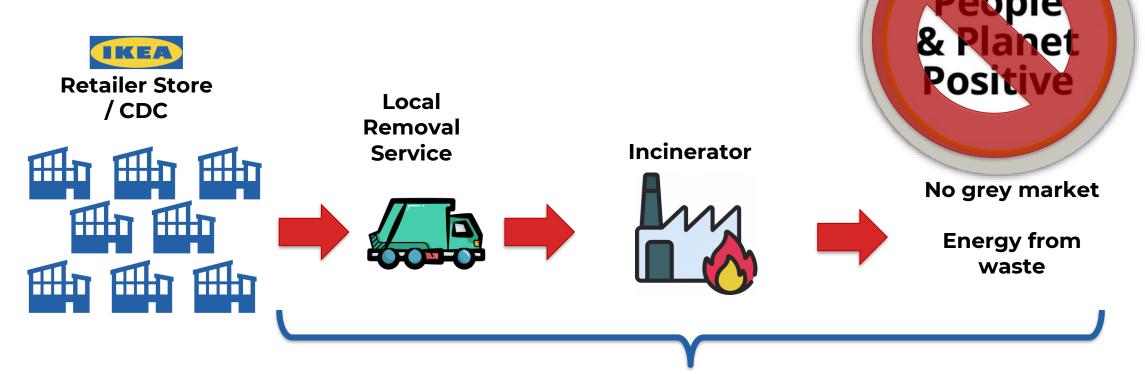
2018 IKEA'S PIVOT

Towards a Circular and Inclusive Future

"become climate positive and circular by **2030**, leaving a positive impact on society."



IKEA's old linear model



Daily linear operating process

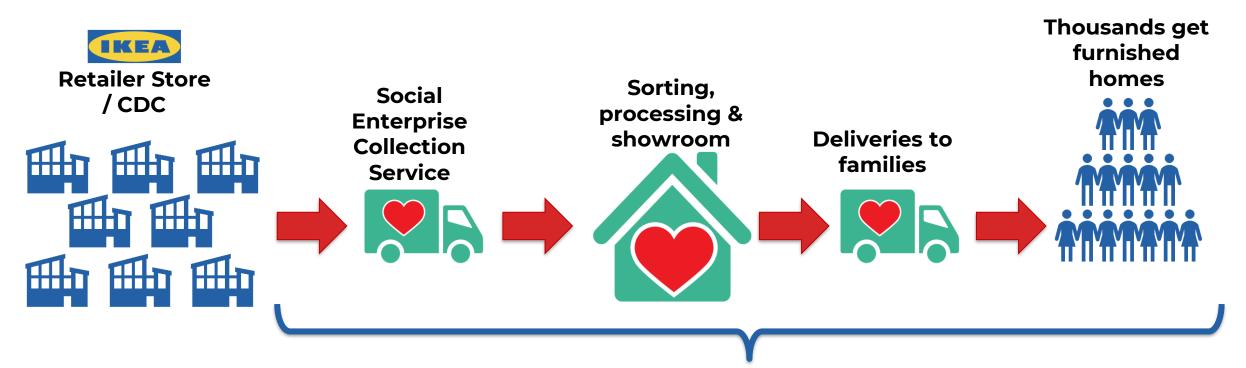
(efficient, cost effective, BUT anti- People Planet 2030)





Furniture Bank does the heavy lifting

Scalable and Sustainable



From a store to a new home in 72 hours.

(no resale, no grey market, no brand risk)



Paid Transport... (No resale of items)

 Social enterprise model provides cubic feet of space
 to fill with excess

 30-100 families can be supported with 1 trip*









2020 to 2023

28,000 mattresses & items

81% reuse rate

•1,425,992 Kg of Carbon

13,305 families supported



Paid Transport... (No resale of items)

 Social enterprise model provides cubic feet of space
 to fill with excess

 30-100 families can be supported with 1 trip*





















2024 and beyond

- Expanding pilots
 - More Product Types
 - -Give Back Programs
 - On Site Drop Offs

 Taking the model across Canada!







Solving overlooked climate challenges



Building a greener world by translating data into action



POV: You just finished finals and realized you need to move out



As students move out for the year, it's "Penn Christmas" — or trash apocalypse.



A large pile of trash on 42nd Street near the University of Pennsylvania campus on Tuesday. Fo graduation, piles of furniture and garbage often appear near off-campus housing as stude... Re: Monica Herndon / Staff Photographer



Conquering the Trash Mountain After College Move-Out

To diminish the size of end-of-year piles, colleges and universities around the country are taking proactive measures to manage extra trash and recyclable materials.





Stories



College student reveals the ludicrous problem left behind after the endof-year rush to move out: 'This makes me livid'

Story by Jane Donohue • 1mo

The Cool Down + Follow

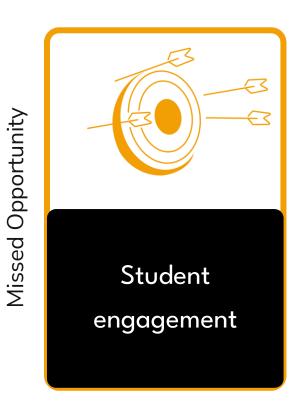
ADVERTISEMENT



The same basic problem hurts universities every year

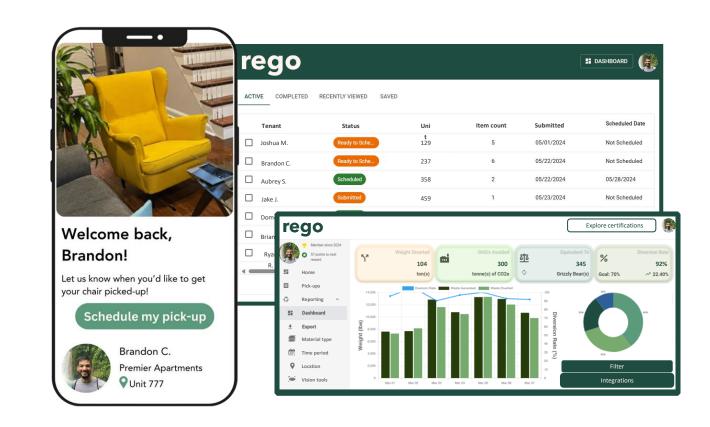
Current Problem Time



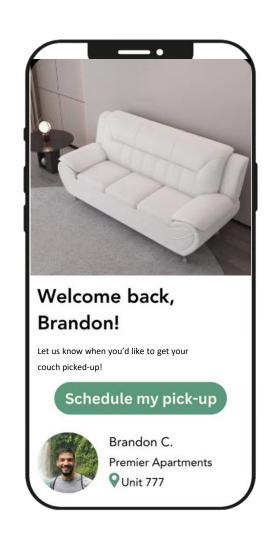


Removal needs to be easy

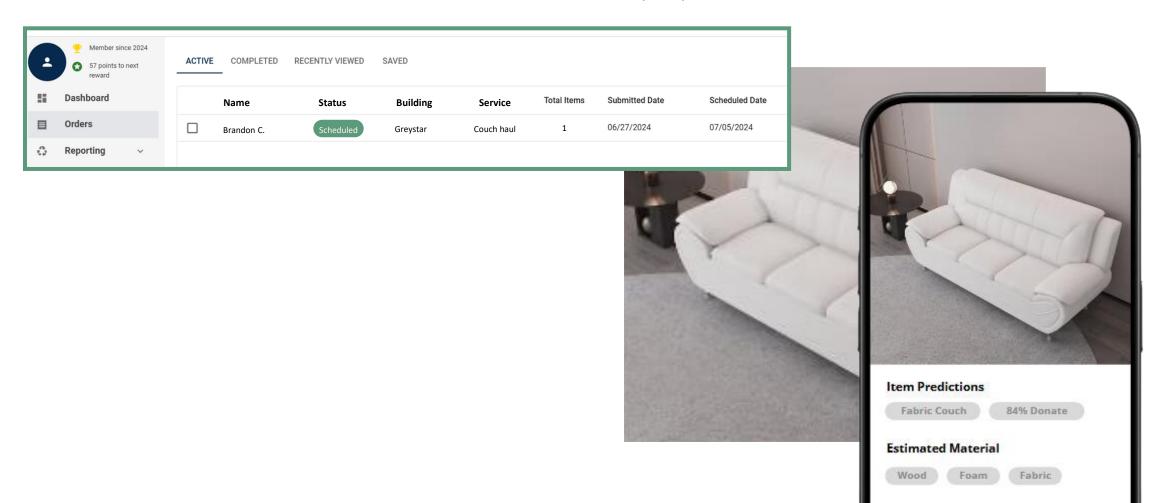
- Easy solution for students
- Easy for the apartment buildings
- Easy for the community

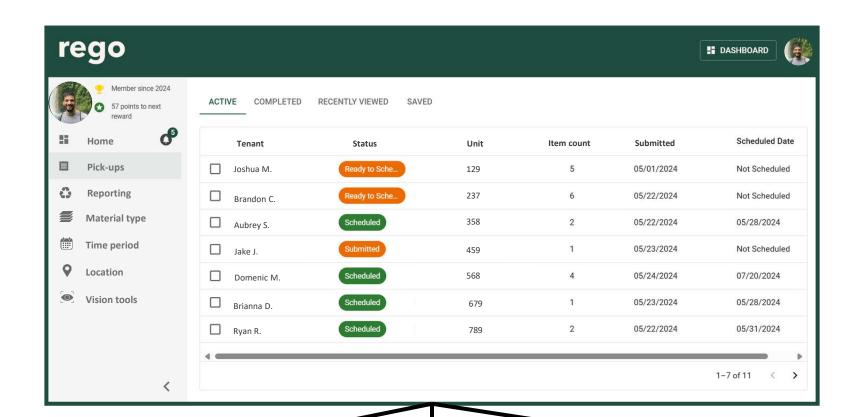


Take photos of what you need removed



Automate hauls and waste diversion services from the photo(s)

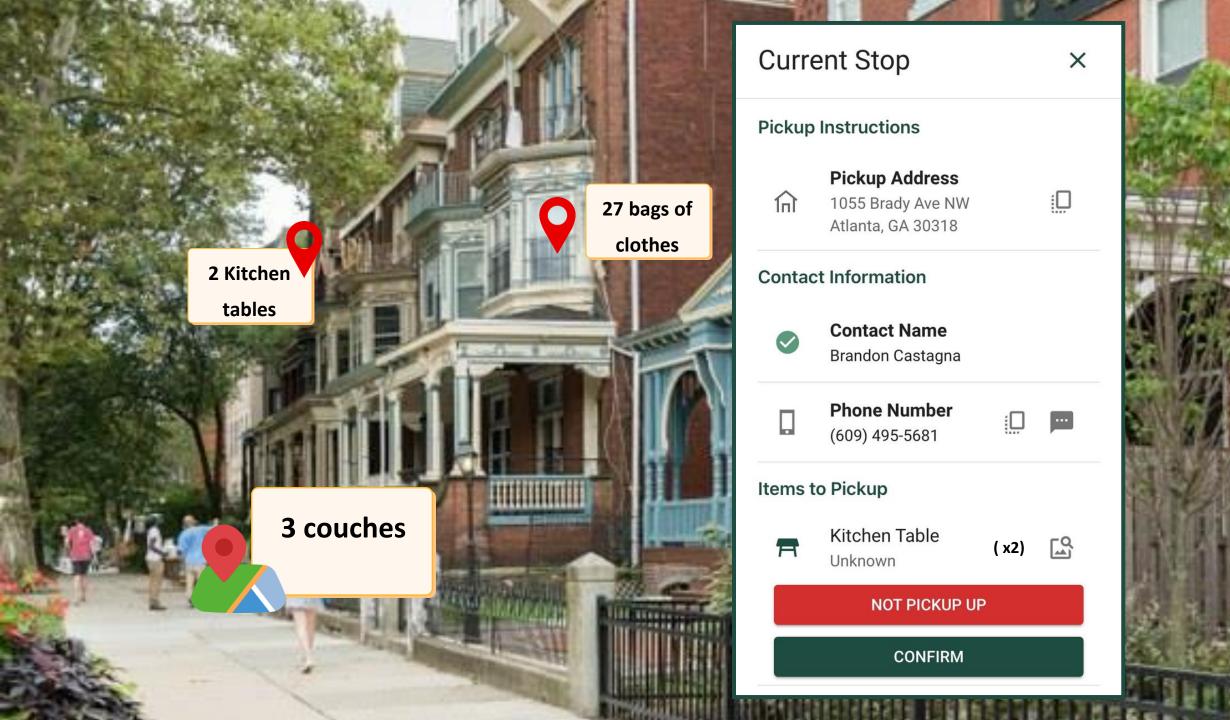












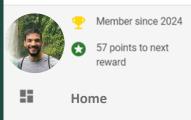


45 laptops

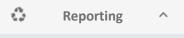
rego

Explore certifications











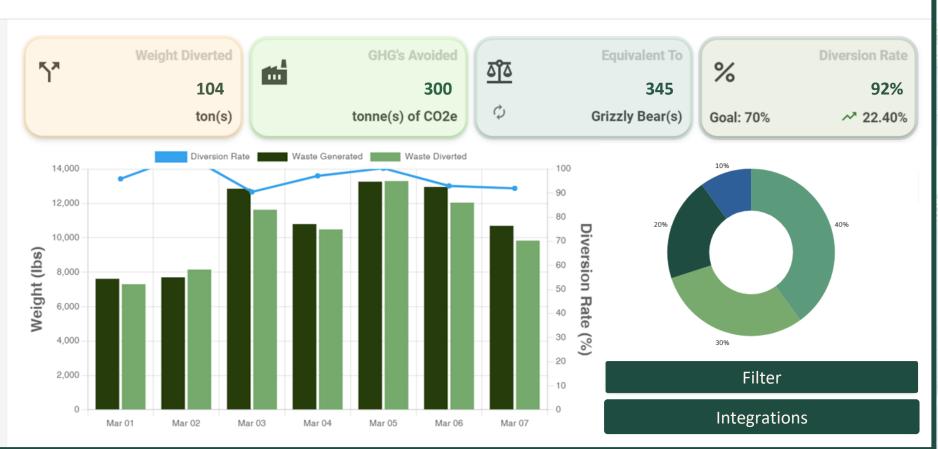










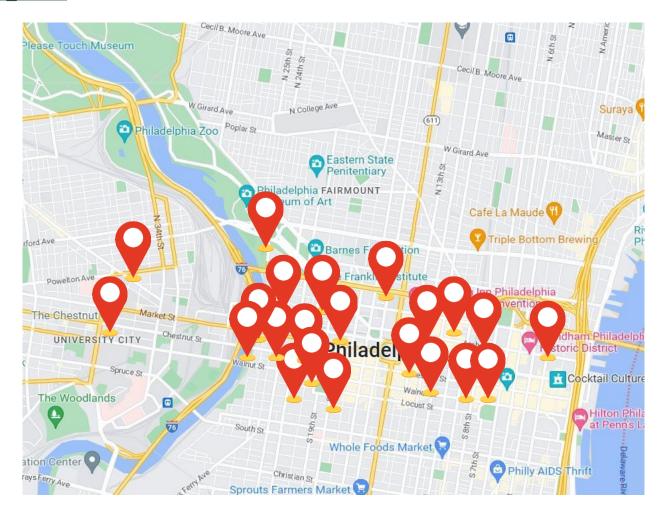


27 bags of clothes

Case study: 2024 Holiday Donation Drive

- 25 Apartment Buildings
- 75 furniture items and20 bags of clothing
- **9**,000 saved

\$8,000 revenue generated



Impact

Over 200,000 lbs

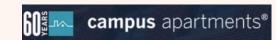
>80%

50%

Customers and partners:











Entrepreneurial Center













GHG's Avoided

574.39

kgCO2e







Cardboard Recycling

It looks like you have cardboard present in your landfill waste stream. Cardboard can take up a considerable amount of space and lead to...



lb(s)



Reduce Waste from Move Out

Implement a move-in/move-out recycling and donation program to minimize waste generated from discarded furniture, electronics, and...





Thank You

Josh Mastromatto: Co-founder, CEO

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