

12:45 pm Pacific Time October 2, 2024

Track B

Concurrent PM

How Technology & Data are Changing the Landscape of Zero Waste

Speakers:

Jessica Gonzalez

Meredith Danberg-Ficarelli

Valentina Rappa

Moderator: Jamie Kaminski



Day 1 • Zero Waste Businesses & Institutions



Jamie Kaminski

President
HSR Zero Waste
(Moderator)







Jessica Gonzalez

Founder & CEO
Happen Ventures







Meredith Danberg-Ficarelli

WA+TS (Waste Administration + Tracking Software)
Happen Ventures







Valentina Rappa

Sr. Sustainability Manager, Circular Economy Rheaply





HAPPEN® VENTURES



ABOUT US

HAPPEN° VENTURES

Award winning Happen Ventures bridges the gap between conscious companies and communities by **diverting** reusable products wrongly going to waste.

A solution for businesses to reduce waste while generating savings and tax benefits for donating merchandise to people in need and or creating upcycling opportunities.

We thrive offer a more sustainable and cost-effective alternative to recycling, incineration or landfilling. We are a solutions company that relies on tech and data to bridge that gap..

As seen on:

















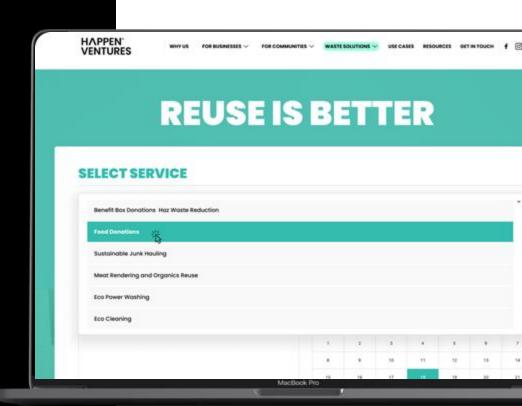






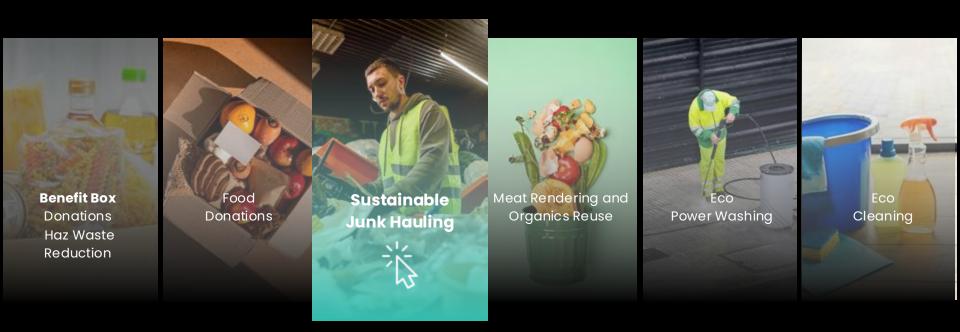
ALL IN ONE SUSTAINABLE SERVICES FOR BUSINESSES

Tech can help streamline services once piecemealed and provide national solutions for thousands of locations.



Most Business have similar waste issues

A solution for one can be a solution for most.



DDDDDDDATA

HAPPEN[®] VENTURES

Happen Ventures uses data / tech to create matches for items to be reused either sold, donated or recycling taking into account the material, the condition, the volume and the location. This allows us to get items to closer end of life streams saying on CO2 emissions and cost. Data also allows us to show diversion metrics which measure the success of a program.



HAPPEN[®] VENTURES

WITH DATA AT YOUR DISPOSAL in one place

- Impact/ Diversion Reports
- Pickup Calendar
- Pick up Details
- Organizations Donated To
- Donation Pictures
- Donation Documentations
- Weights
- CO2 Impact



SMALL CHANGE, BIG BENEFITS

UNSELLABLE ITEMS



Returns



Expiring or Expired Items



Slow Moving



Slightly Damaged



Open products



Electronics



Hazardous Materials



Bulky items



Cardboard, Paper, Plastics



Set Apart For Reuse



Reduce Waste



Lower Bill



Boost Brand Image



Throw It Away



Pay For Disposal



Risk Fines For Hazmat



Exposed To Bad Press

CASE STUDIES + Success Stories



Happen Ventures rescued Walgreens' coolers from costly recycling, diverting them to food banks and achieving a 60% cost savings

Walgreens

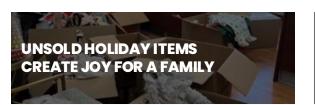


A luxury hotel in Banff donated nearly-new towels and linens to a recovery center in Calgary, transforming potential waste into essential comfort for its residents.



Through our matching program, we diverted surplus shoes from a retailer to a local nonprofit, preventing landfill waste and benefiting the community.

Durlington



Unsold holiday items from a store were donated to a family, bringing festive cheer and unforgettable memories to their home for the first time.





Turning Waste into Rebates" Summary: "By identifying an upcycle opportunity, we provided our waste management partner's customer with a rebate on truckloads of sodium stearate, turning what was once considered waste into a valuable resource.



"Transforming expired IV bags into crucial medical resources, we provide essential treatment for animals in shelters, minimizing waste and maximizing impact."





A Fresh Approach to Food Bank Distribution" Summary: "Instead of sending newly expired Pocki sticks to the landfill, we swiftly deliver them to food banks for distribution, at a fraction of the cost of disposal

TURNING WINDMILL SCRAPS INTO POOL LINING: A SUSTAINABLE SOLUTION

"Repurposing carbon scraps from windmill manufacturing as pool lining offers a cost-effective and environmentally friendly alternative to landfill disposal."



PREVENTING FOOD WASTE: TRANSFORMING MISSED PICKUPS INTO MEANINGFUL DONATIONS

By optimizing pickup schedules, we helped our retail partner divert surplus food from landfills, ensuring it reaches those in need through timely donations."



Usable fixtures from an unused batch were donated to a nonprofit, enhancing living conditions for less fortunate communities instead of being discarded in a landfill.



RECOVERED GOWNS ENHANCE NIGERIAN HEALTHCARE

Gowns that were nearly discarded were donated to women's hospitals and the Association of Doctors in Lagos, providing essential support and improving patient care.



TRANSFORMING BEAUTY FOR A SECOND CHANCE

Rescuing beauty products just past expiration, we redirect them to women in jail second chance programs, offering new hope and opportunities while reducing waste.



HAPPEN° VENTURES

We make things happen.



National Zero Waste Conference 2024

Tech + Data are Changing the Landscape of Zero Waste

Meredith Danberg-Ficarelli Co-Founder + CEO

We are business waste reduction experts

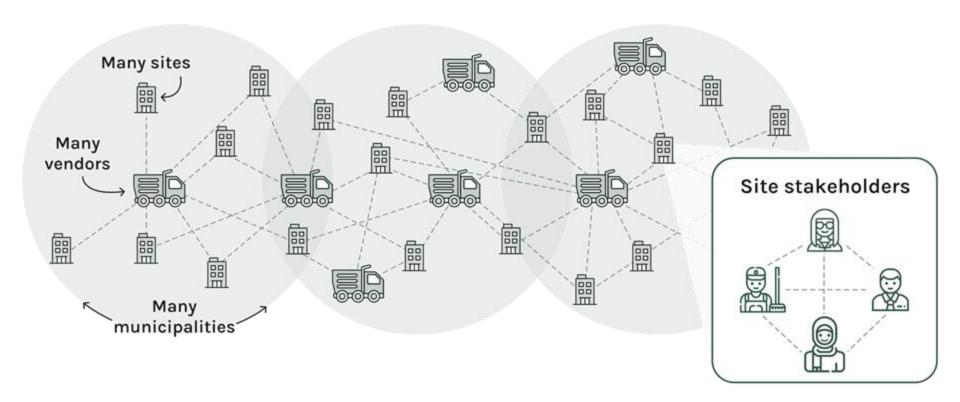








Waste operations for multi-site entities is complicated





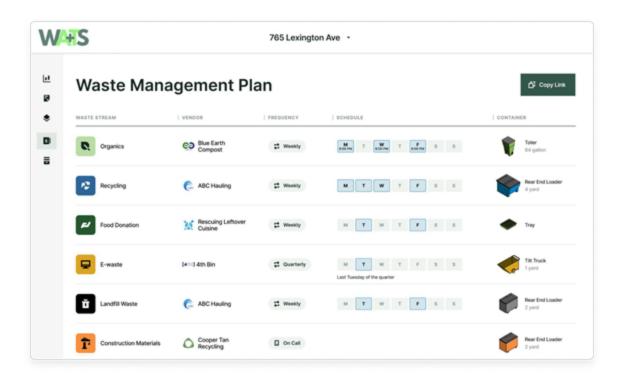
WATS delivers waste optimization guidance to sustainability teams

Save money

Divert + reduce waste



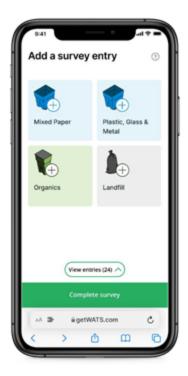
Automated, site-specific waste management plans



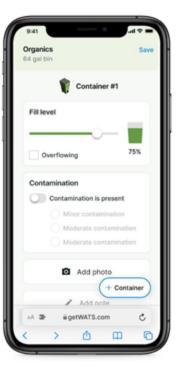
Digitize +
Organize:
Waste Streams
Vendors
Collection
Schedules
Infrastructure



Waste data collection made easy



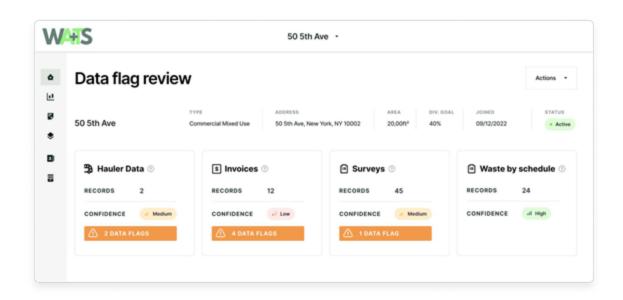








Improve data quality and confidence in waste data



Recent success story:

40% → **72%**

Data confidence improvement in 6 months



Case Studies



WATS CASE STUDY

Saving time for a quick serve restaurant with 400+ locations



About the Client

- → 90 vendors
- → Hundreds of jurisdictions
- → 8 states

Their Challenges

- Invoices in different formats
- 2400+ PDF invoices/year
- 50 hours spent/month on manual data entry



WATS aggregates all data sources and delivers insights





Case Study #1

WATS RESULTS



90 vendor invoices from 400+ sites standardized



Simplified data and automated bookkeeping



Centralized data to reveal cost trends





WATS CASE STUDY

Identifying cost savings for a property owner / manager in NYC



About the Client

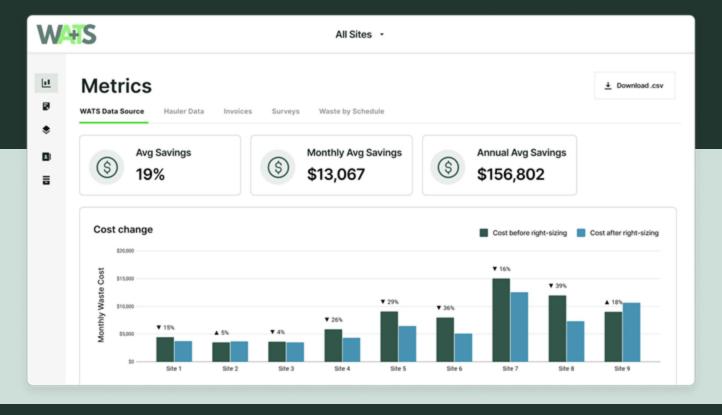
- → 15M ft² of property
- → Commercial + residential
- → Driven by sustainability

Their Challenges

- Post-COVID occupancy low, but hauling was back to Pre-COVID prices
- Property owner did not understand the true price they should be paying for their waste collection given COVID price and occupancy fluctuations



WATS identified 19% potential cost savings





Case Study #2

WATS RESULTS



\$150k across the portfolio for the year across 9 sites



Future recommendation:
Right-size quarterly based on
12 month trailing average



Now, WATS is automatically analyzing cost trends





WATS CASE STUDY

Improving operational compliance for an NYC airport



About the Client

- → 40 concessions
- → Multiple stakeholder groups
- → Large waste volumes

Their Challenges

- Low transparency into waste ops
- No tools
- No real-time data digitization
- Small team, few resources



WATS RESULTS



Organize + engage with stakeholders



Streamline waste operations



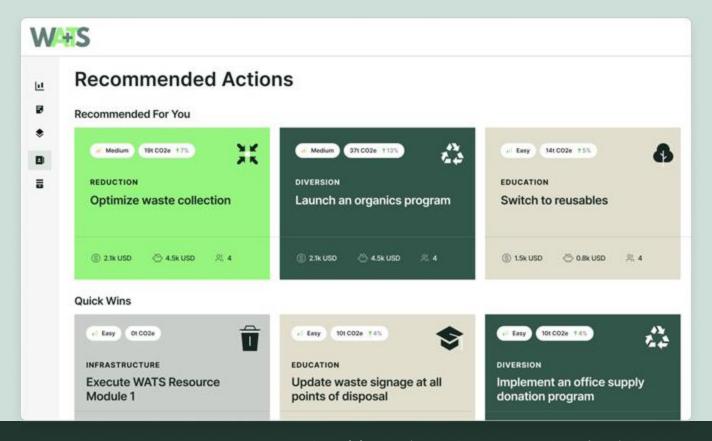
Targeted retraining to drive increased diversion

Case Study #3





Coming soon: automated recommendations engine





Thank you!

meredith@getWATS.com





Rheaply

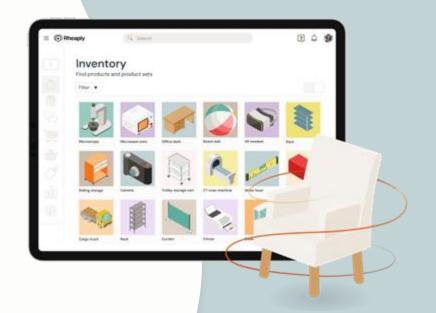


Panel

Unlocking reuse potential throughout the product life cycle



Valentina Rappa
Senior Sustainability
Manager, Circular Economy





Workplace resources represent a lot of embodied carbon





2x its weight



70 kg CO₂e

3x its weight



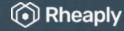
30 kg CO₂e

2x its weight



150 kg CO₂e

100x its weight



Each year, companies are burdened with two expensive problems...

\$193 billion

is spent on storing assets

\$450 million

spent on landfill tipping fees

19 Years

Illinois' rapidly declining landfill capacity

And these problems create a lot of waste ...

17 billion lbs

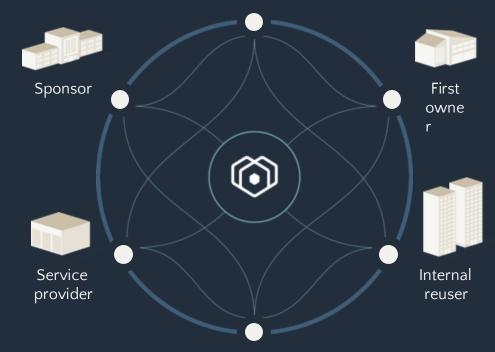
of office assets go to the landfills 80%

of furniture and equipment end up in the landfill



How Rheaply unlocks the circular economy

Rheaply enables a circular life for an asset with visibility, traceability, and high reuse potential.









Real-time data to inform next, best use

Know what you have

Digitally track and manage what matters to you about your inventory.



- Save money
- √ Improve efficiency

(Re)use what you have

Source from your own inventory and share resources across your organization.



- Make smarter purchases
- √ Boost collaboration

Sell or donate the rest

Extend the life of your assets with donation matchmaking via Rheaply's network of 3,000+ partners.



- √ Increase sustainability
- Expand your network

Rheaply Platform

Sustainability reporting

Rheaply's platform and services both come with access to our reporting and lifecycle analysis database from our partners at WAP Sustainability Consulting

Embodied carbon reporting partners:









Reports > Estimated embodied carbon avoided

F3 Date range: 08/22/23 - 01/22/24 ▼

Estimated embodied carbon avoided

Q0 2023

8.6k kg CO2e @ Estimated embodied carbon avoided

Estimated embodied carbon avoided (Beta) View the estimated embodied carbon avoided from the reuse of items in your organization.

○ Exchange type: All ▼

weight recaptured and diverted from landfill



Q4.3023

Total estimated (kg CISNs) Displaying selected date range from Aug 22, 2023 to Jan 22, 2024

embodied carbon avoided



Q1.2024

What is this report telling me?

Group by: Quarter *

.i., Download

value captured through reuse

Circular City Initiatives

North Central Texas Reuse Marketplace - Launched on 9/19

Michigan Materials

Marketplace - Re-launched on 9/10



Reuse Marketplace Introduction

The Reuse Marketplace is intended to give local businesses and organizations the ability to connect and keep things in circulation instead of throwing them away

Utilizing Rheaply's marketplace software, all organizations now have a way to list surplus items on the platform and donate or sell to other businesses in the region, effectively keeping them out of landfill.



NCTCOG is a regional solid waste planning agency for North Central Texas, betting on a circularity

- Supports a Resource Conservation Council in North Texas
- Provides local governments with technical assistance
- Applied recent grant funding to launch Rheaply and advance materials management programs in North Central Texas
- Maintain "Regional Solid Waste Plan" with Rheaply technology at the core



Workplace resource and building material circularity for capital projects and refreshes

Reuse of furniture, fixtures, and building materials for campus capital design projects and refreshes at a major tech company

In just 17 months Rheaply enabled...

\$1.4 million
Spend avoided

55,000 lbs Weight diverted

\$372,018 Value donated to SoLa Impact











Lab reuse with UAB's Green Lab and Environmental Health & Safety

Circulate Internal enables more than 2,000 principal investigators to list laboratory materials.

In just 4 months we saw...

\$262,011 Total value

4500 lbs
Weight diverted

\$113,774 Value recaptured



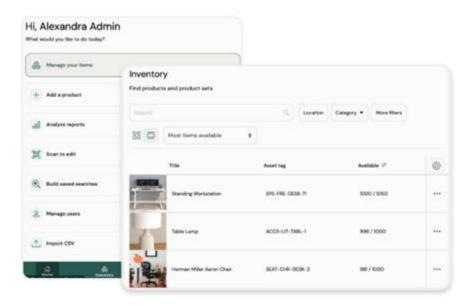


"Rheaply will not only allow us to achieve our sustainability goals but will also maximize how our research dollars are spent by saving researchers a significant amount of their funding."

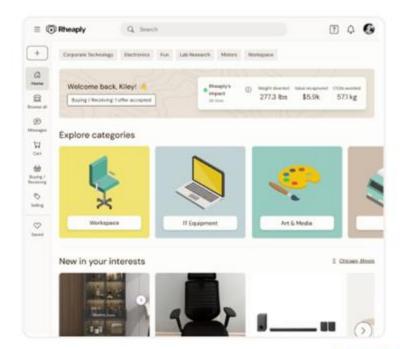
Digitized inventory leads to Democratized demand

(1)

Warehouse managers, Facilities managers, Plant managers



Workspace Designers, Plant managers, Donation partners, small/medium business





Creating digital twins for products can unlock downstream value



Day 0

Manufacturer or dealer installs QR code





Customer contributes to record

- Location
- Condition
- Product feedback

Day 0



Record is created in Rheaply

- Product data catalog
- Warranty info

Day 0



Item is purchased or leased

Day 1



Item is delivered

Day 2



Customer circulates items

- Storage
- Movers
- Warehouse mgmt
- Fulfillment
- Restore, repair, refurbish



- Browsing
- Reserving
- Coordinating with end user

Day 2



Customer has options

- Back to dealer
- Sell
- Donate
- Recycle

Interested in connecting with our team?

Schedule a product demo



https://rheaply.com/enterprise/

Chat with me about your circularity goals



go.rheaply.com/valentina

Connect at upcoming events

- 1. CoreNet
- 2. <u>Greenbuild mindful</u>
 MATERIALS Pavilion
- 3. IFMA World Workplace

Thank you!



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