Unlocking Recycling's Potential: Levers of Behavior Change – In Action

February 22, 2024





Agenda

DAY 1

Welcome

Why Behavior Change Matters in this Moment?

Behavior Change & Behavior-Centered Design

Equity & Recycling

Interactive Adventures with Behavioral Insights

Framing, Empathizing, Mapping

DAY 2

Opening, Reflections, and Warm-Up

About Connected Recyclability

Levers of Behavior Change – In Action

Ideate, Prioritize & Refine Solutions

Prototype, Test, Launch, Assess

Equity - What's next?



Behavioral Solutions Speed Talks







Recycling Behavior Change

A case study from Wales

Bettina Gilbert Head of Technical Support and Financial Mechanisms, WRAP

VISION

Our vision is a thriving world in which climate change is no longer a problem

Our mission is to make the world a more sustainable place. We bring people together, we act on the facts, and we drive change

PURPOSE

Our core purpose is to help you tackle climate change and protect our planet by changing the way things are produced, consumed and disposed of

About Wales

- Population 3.24m
- Industrial heritage
- Proud nation
- Devolved powers for waste
- Ambitious waste and circular economy strategy



Two key policy levers

Statutory Targets

By 2024/25 every LA in Wales must have:

- a minimum of 70% of waste being reused, recycled or composted
- a maximum of 30% waste being used to create energy
- a maximum of 5% of waste being landfilled

The Collections Blueprint



Welsh context

The barriers to recycling correctly can be grouped into four key areas:



These need to be addressed by delivering targeted and effective behavior change campaigns.

Understanding behaviors

 Dry and food recycling trackers

Dry Recycling Tracker Survey Wales - Spring 2023 Results

We found recycling to be an established and normalised behaviour in Wales.



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• Sustainable Lifestyle **Segmentation**



https://youtu.be/4JZsH6Y-Two?si=Xj0cEESdDOfY3hBi

The results





Thank you





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Using Incentives, Tools and Feedback to Increase Recycling Michelle Metzler Director of Community Programs

February 21, 2024



We mobilize people, data, and solutions across the value chain to reduce waste and our impact on the environment while also unlocking economic benefits.

	Improving Access Improves Capture, <i>and</i> Improving Education, Engagement, Behaviors Is Needed for Maximum Capture				
	Drop-Off Only	Curbside Opt-In	Curbside in Bins	Curbside in Carts, No Education	Curbside in Carts, Good Education
Avg Pounds per HH Captured Annually	Minimal	100	200	375	400+
Stepped Behavior Change	Add Access or Drop-Off	Universal Access	Cart Access	Basic Education	Evidence-Based Tailored Engagement

On average, single-family households generate ~750-800lbs of recyclables each year.



Pay as You Throw (PAYT)

Variable rates for garbage service with and higher cost for more service

Impact

- Increased recycling
- Study across Massachusetts found PAYT as the most important factor in increasing recycling (Starr & Nicolson, 2015)
- Common structure in states with high recycling rates



Starr, J., & Nicolson, C. (2015) Patterns in trash: Factors driving municipal recycling in Massachusetts. *Resources, Conservation and Recycling*, 99, 7-18. https://doi.org/10.1016/j.resconrec.2015.03.009.



Motivational Messaging Informed by Audience Segmentation



Empathy "We get it. It can be confusing."

Logic "Recycling makes sense."

Emotion "We have to do better!"



Pilot Design

3 pilots testing motivational messaging delivered by cart tag and mail

Findings

Cart tags + mailers using emotional and empathetic messages increased recycling route tons substantially.

- Empathetic Message Group: 38% increase in average route tons (51% increase on one route)
- Emotional Message Group:

16% increase in average route tons (38% increase on one route)



According to the control route tons went down, but the interventions using the emotional and empathy messages saw increases.



Pilot

• 5 Mailers For All Intervention Group Households

- Free in-home recycling bin by request
- Two Recycling Calendars Reminder to act
- Two Motivational Message Empathetic and Logical

Findings

- Recycling Households
 - Mailers significantly increased recycling participation
 - The in-home bins contributed to a small increase in set out beyond the mailers only.

Non-Recycling Households

- Mailers alone was not enough to change behavior
- Households that opted to receive an in-home bin helped some non-recyclers start recycling.

Average Increase in Recycling Set Out

Difference Between the Average Collection Set Out in Baseline and Post Intervention Phase







Program Design

- Informational Mailing
- Four rounds of cart tagging
- Carts with contamination are not serviced

Results

• Decreases contamination 20-60%

Impact of Cart Rejection

- New Bedford, MA Feedback only
- Dartmouth, MA Feedback and rejection
- Dartmouth reduced contamination by nearly twice the rate of New Bedford
- One year later
 - Dartmouth maintained the lower contamination rate
 - Impact eroded in New Bedford







Design the system with behavior in mind

Design interventions that target specific behaviors

Deploy interventions that help residents overcome barriers to recycling

Measure outcomes





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