Unlocking Recycling's Potential: Day 1

February 21, 2024









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

Ideate, Prioritize & Refine Solutions

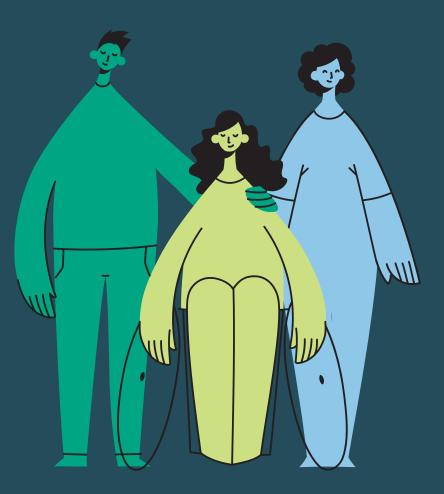
Prototype, Test, Launch, Assess

Equity - What's next?



Welcome!

Louise Bruce Managing Director, Center for Sustainable Behavior & Impact The Recycling Partnership





All stakeholders contribute to the success of recycling.



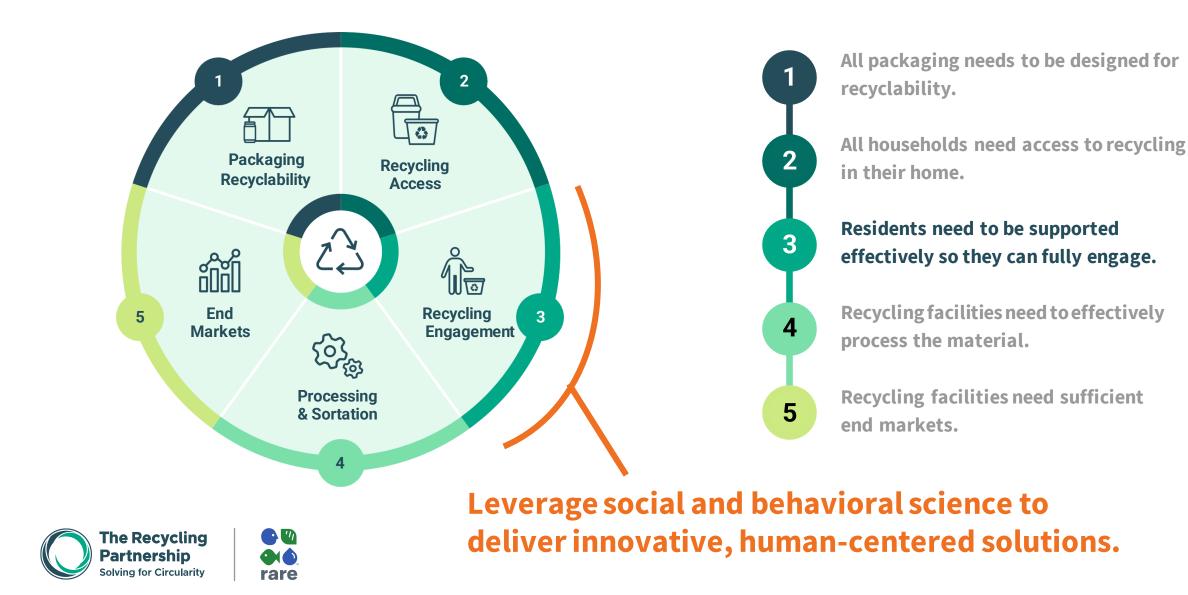
rare

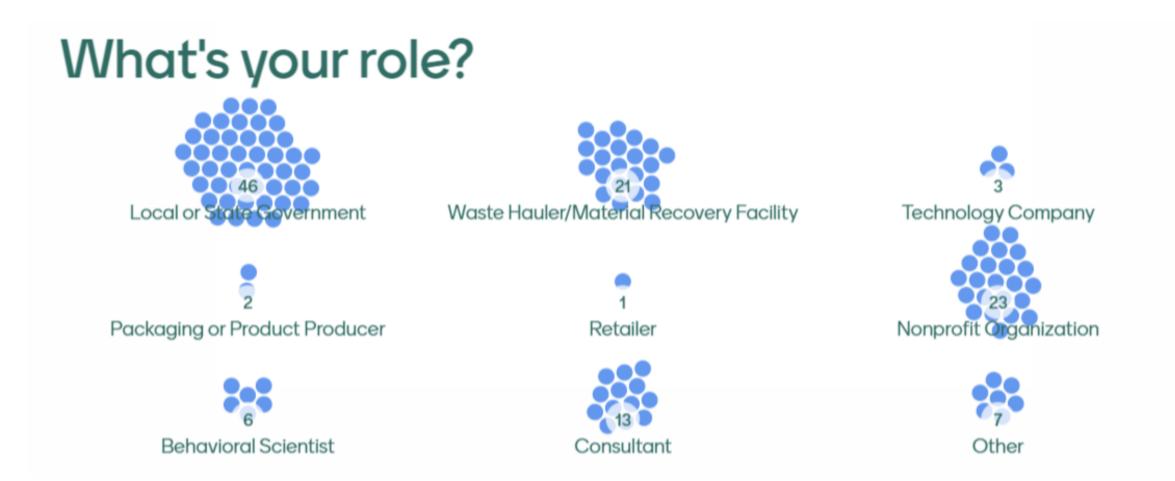
The Recycling

Partnership Solving for Circularity



All stakeholders contribute to the success of recycling.





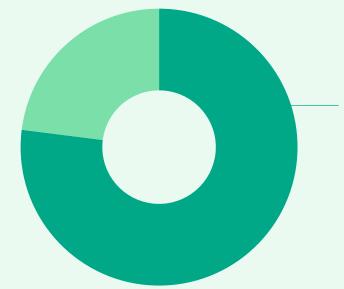






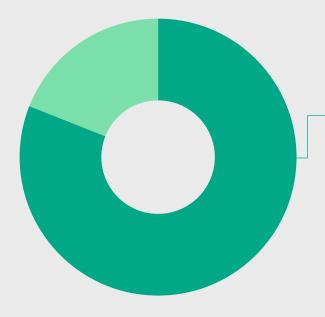
When it comes to recycling, there is a beliefbehavior gap.





Believe recycling makes a difference and has a positive impact.

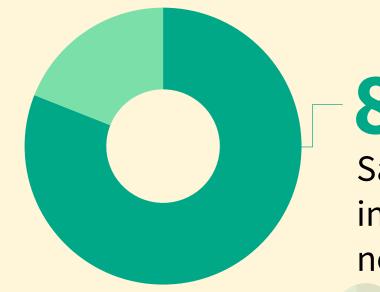




Say we are not doing enough as a society to combat wastefulness. More than half admitted they feel guilty when they do not recycle. ÓÒ







Say they have the instructions they need to recycle.





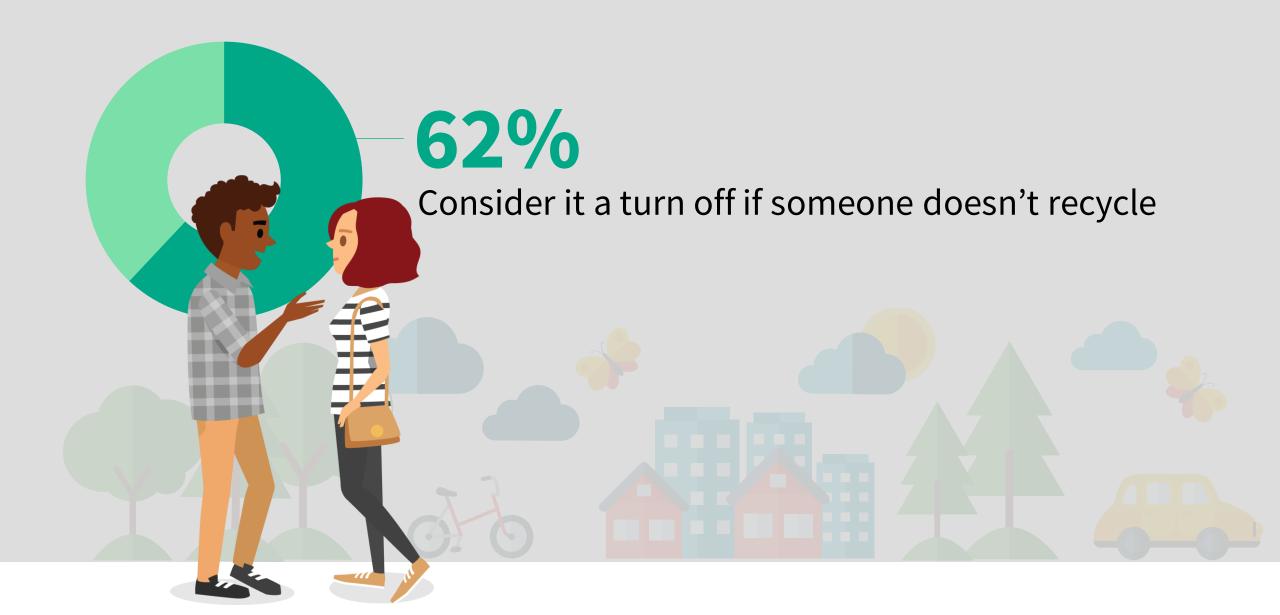
8/10

See a relationship between recycling and solving the plastic pollution problem

78% Louisiana 77% Texas

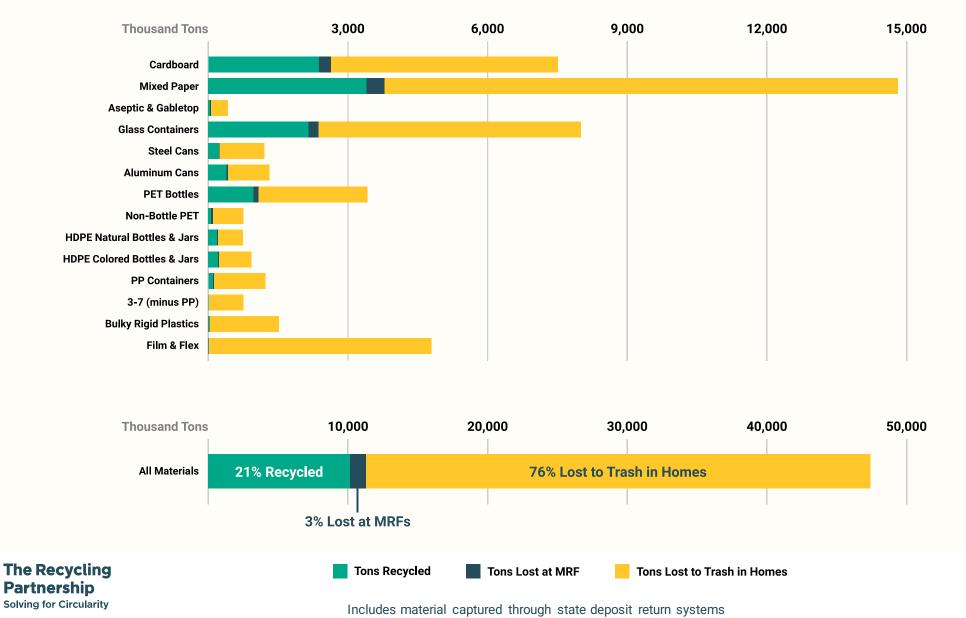








Yet, 76% of Residential Recyclables Are Lost





323

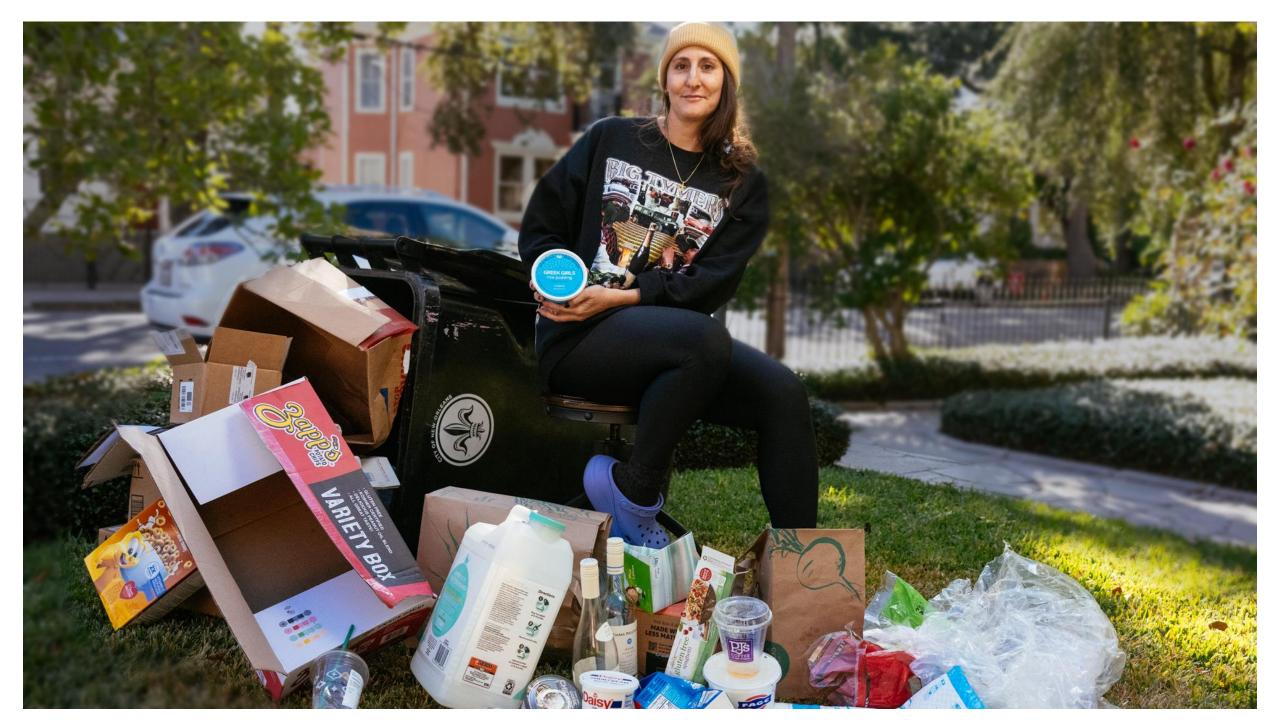
50%+ lost from households with access to curbside collection.

Please close your eyes.

Picture a household that CAN recycle, but does NOT participate.









Public education and information are part of the solution, but there is a significant base of research that shows awareness and information alone do <u>not</u> change behaviors.



Workshop Objectives

Understand how applying a behavioral lens can enhance the effectiveness of recycling programs, ensuring no one is left behind.



Explain the six behavioral levers and underlying principles with a specific focus on equity.

Identify key behavioral motivations and barriers residents face when it comes to recycling.



Diversity, Equity, Inclusion, Belonging

Define engagement and outreach with diversity, equity, inclusion, and belonging (DEIB) in mind.

2

Solutions

3

Explore real-world data that can lead to increasing resident recycling participation. Get in Touch:

Louise Bruce

- Ibruce@recyclingpartnership.org
- <u>https://recyclingpartnership.org</u>



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

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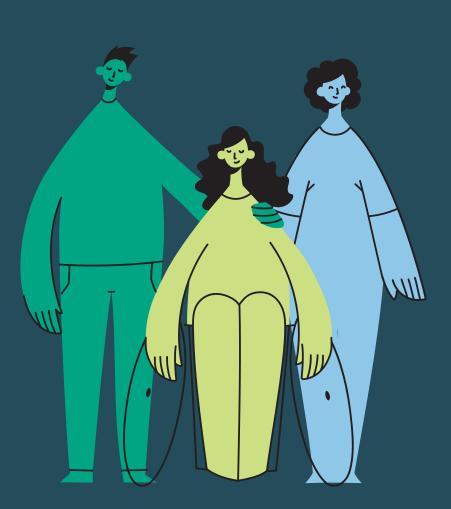


Why this moment creates a unique opportunity to support behavior change.

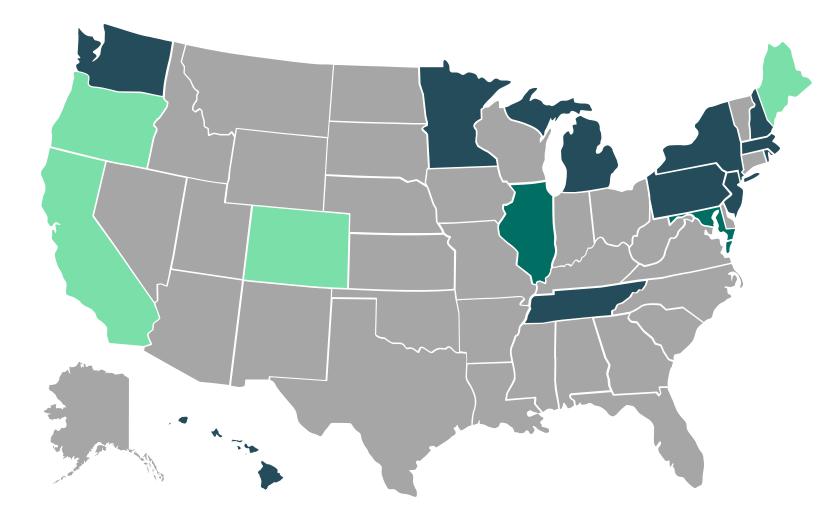
Linnea Whitney Skierski Director of Policy Implementation The Recycling Partnership







U.S. EPR Policy Landscape



EPR for Packaging Legislative Activity in 2024 (introduced or expected)



Needs Assessment passed in 2023



U.S. Policy Landscape: EPR Requires Substantial Investments in Public Engagement

Partnership

Solving for Circularity

Implementation Activities	California	Colorado	Maine	Oregon
Scope	Improvements	100%	100%	Improvements
Reduction and Reuse				•
Recyclability Determination			•	
New Access	•		•	•
Education and Outreach	•	•	•	•
MRF Improvements	•		•	•
Need for Improved Data and Measurement				

23

To use **recyclable or compostable marketing claims**, producers must ensure statutory criteria are met starting

Fall 2025.

A finalized state study with data on key recyclable criteria is expected in Spring 2024.



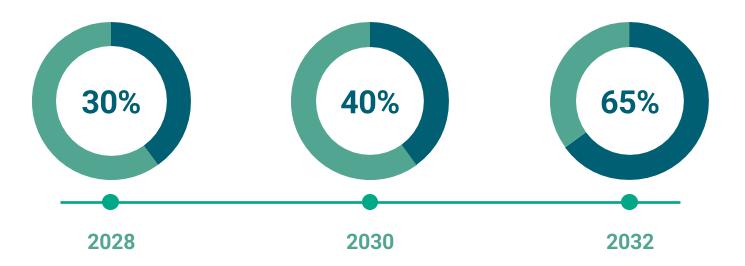
All covered packaging materials must be deemed **recyclable** or **compostable** by <u>January 2032</u> or potentially be subject to **sales bans** and

civil penalties in California.



SB 54 Mandated Goals for Plastic Packaging & Food Service Ware

Plastic materials covered by the policy must achieve mandated **recycling rates.**





recycling rate target for all plastic covered materials by 2035

How will the system get there?

2

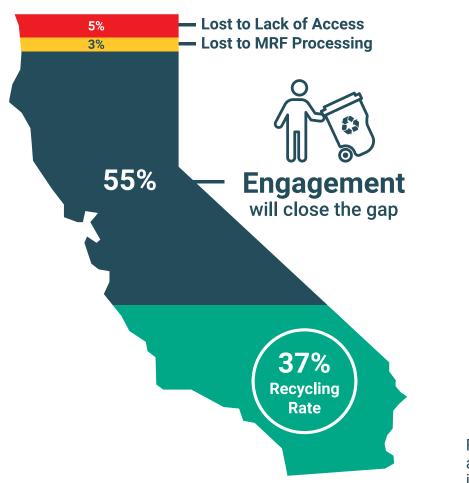
Significantly increasing packaging design innovation

Supporting the public through behavior change initiatives

Improving domestic markets and infrastructure



State of California Pathway to 65% Recycling Rate





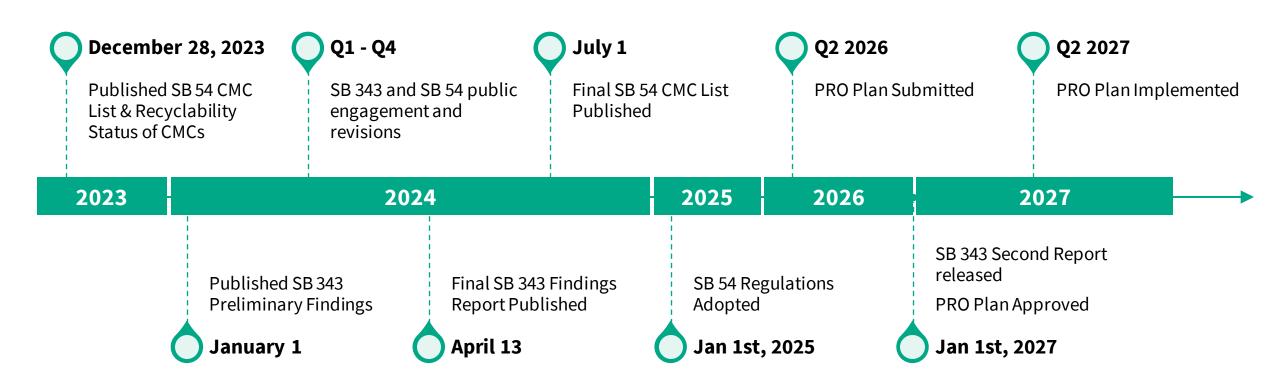
Full engagement encompasses the ability to recycle all recyclable materials, including through material acceptance

SB 54 Explicit Focus on Reuse, Refill, & Composting Behaviors (in addition to recycling)

With an intent to advance these four areas









The Success of Shifts in Consumption and Waste Starts Now





Get in Touch:

Linnea Whitney Skierski

- Iwhitney@recyclingpartnership.org
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What is Behavior-Centered Design?



Behaviors What you do "I recycle."



Beliefs

What you know or accept to be true "Recycling is important."

Attitudes

What you think is good or bad "Recycling is good."

Intentions

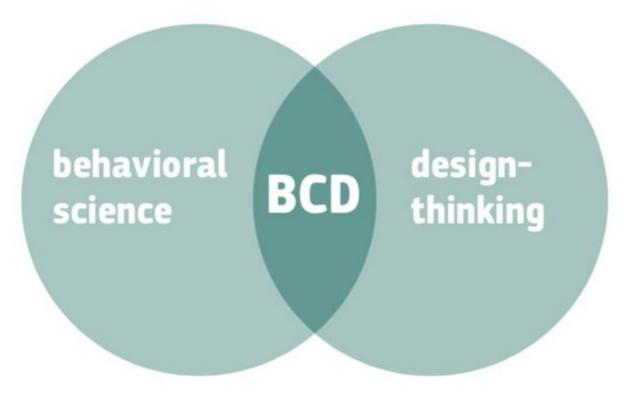
What you plan or intend to do "I want to recycle."

Context

The environment for the behavior "I have recycling bins in each room in my home."

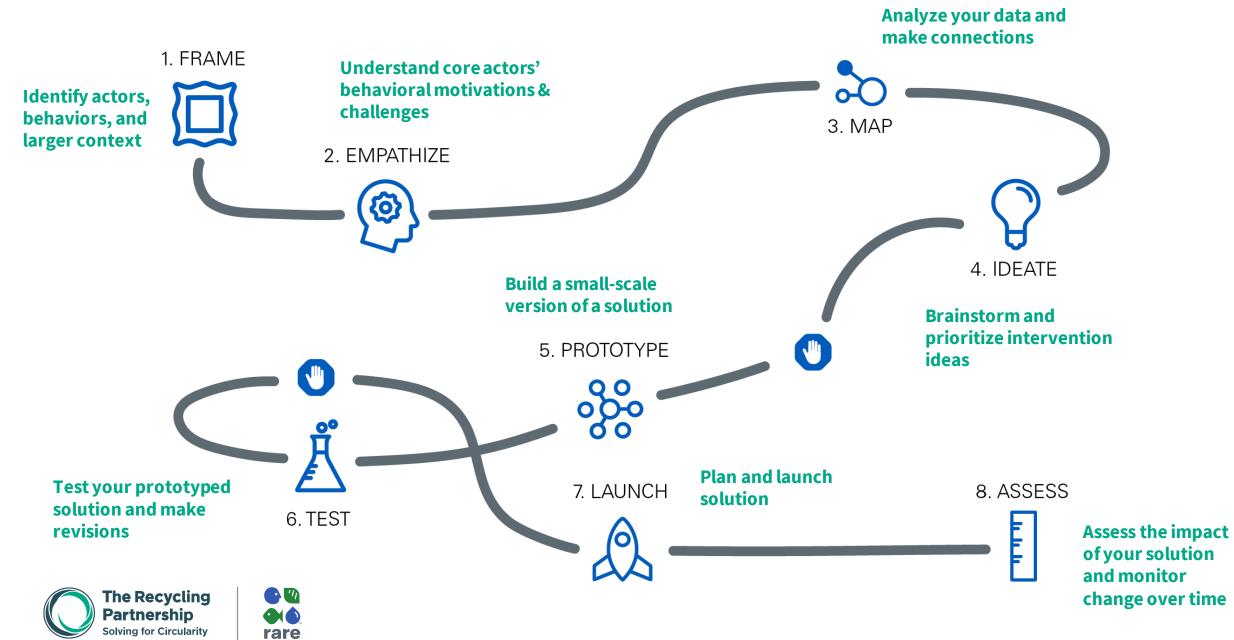


What is Behavior-Centered Design?





The Behavior-Centered Design Journey



BCD x Diversity, Equity, and Inclusion

Diversity = Celebrating and recognizing all the ways that people differ and are unique: *representation*

Equity = Creating fair treatment, access, opportunity, and advancement for all people, while at the same time striving to identify and eliminate barriers that have prevented the full participation of some groups: *fairness, justice*

Inclusion = Creating environments in which any individual or group can be and feel welcomed, respected, supported, and valued to fully participate: *belonging*



BCD x Diversity, Equity, and Inclusion

Some examples of what this looks like:

- ✓ Inviting people to participate in framing the problem and solution design
- ✓ Considering enabling conditions and structural barriers for change
- ✓ Asking 'whose perspective is not captured in this solution?'
- ✓ Conducting research with a diverse set of people
- ✓ Supporting people's choices and agency
- ✓ Use data to design solutions, not assumptions



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Introduction To Creating More Equitable Recycling Outreach

Jessica Levine Diversity, Equity, and Inclusion Manager The Recycling Partnership





Overview of DEIB at The Recycling Partnership

DEIB By the Numbers

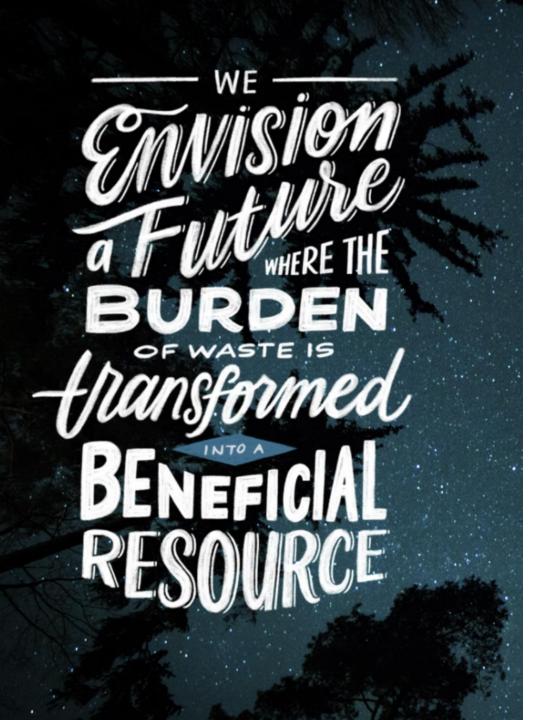
Barriers to Consider

Equitable Outreach in Recycling Programs

Creating Outreach that Resonates

Introduction to Equitable Recycling Outreach Guide





The Recycling Partnership Stands Up and Speaks Out for Equity & Inclusion

Our Team

We foster a culture of belonging through inclusion efforts and our commit to diversifying both staff and board through thoughtful, intentional recruitment and continuous learning.

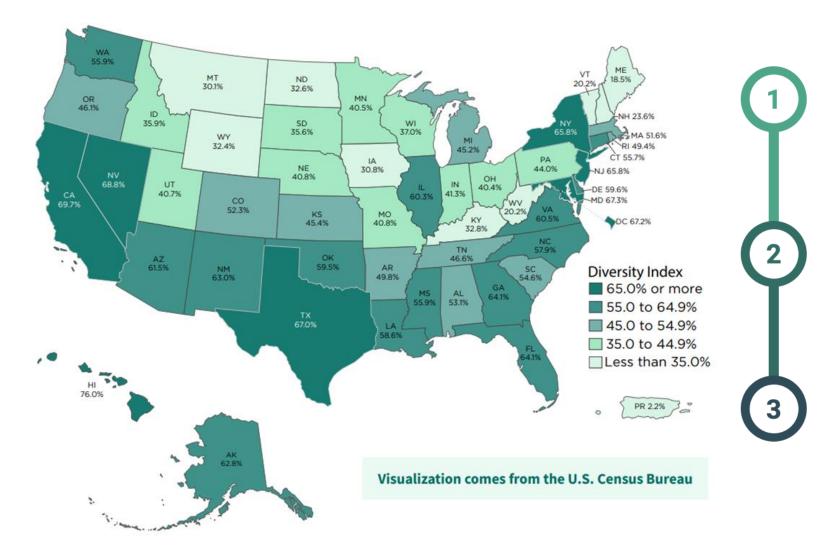
Our Work

Our

Industry

We work to enhance recycling access, education, and participation in communities through research, prioritizing historically under-served BIPOC populations, and by integrating diverse perspectives into all our initiatives.

We are committed to propelling the diversification and equitable representation of all people within the recycling and circular economy industry, starting through the establishment of the FTP Fellowship Program.



Cities with majority Black populations are 50% more likely to not have a curbside recycling program than the country as a whole.

BIPOC households are twice as likely to live in multifamily housing, which offers on-property recycling access at a rate 50% lower than single-family housing.

Wealth disparities related to household income and home ownership have clear impacts on recycling participation, with subscription programs skewing towards white, wealthy homeowners.

The Recycling Partnership

Solving for Circularity

Barriers Might Look Like:

- Lack of access to collection service as well as lack of information about how to sign up, ask questions, or recycle properly.
- Out of pocket or perceived costs of recycling, including bags, service, taxes, potential fines, or time and effort.
- Social pressures and frustrations, such as not seeing others recycle, feeling judged for not recycling, or judged for recycling.



There is no "one size fits all" strategy or solution.



Applying a DEIB Lens to Recycling

Recycling through a DEIB lens means having access to outreach resources that are:

- Reliable and easy-to-use
- Culturally appropriate and relevant
- Readily available for different audiences

It also means:

- Engaging with diverse audiences in effective and respectful ways.
- Seeking diverse partners to collaborate with and co-create relevant outreach materials.
- Finding ways to embed equity into program strategies.

Diversity = Representation of All Members of Your Community

Equity = Resources that are Justly Distributed

Inclusion = User-Centered Design

Belonging = Authentic Connectedness to Community Services and Waste Reduction





Not all marketing is designed equitably. Equitable outreach is best achieved through research, participatory design, and cocreation.

Creating Meaningful Outreach that Resonates



Translation

Translation replaces words in one language with corresponding words in another language.

Transcreation

Transcreation goes beyond translation and adapts messaging to convey culturally relevant meaning in an audience's language.

Social Marketing

A way to inspire social change by understanding an audience and a behavior through interventions and marketing.

Co-Creation

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More Inclusive

Include all stakeholders in the design process to ensure results meet their needs.



Introduction to Creating More Equitable Recycling Outreach, A Guide to Meaningful Engagement

- Designed to provide guidance to tailor public engagement
- Offer practical tips, data and insights to improve effectiveness and strengthen community engagement

Key Themes

- Each program priority audience is different and merits a custom approach
- Effectively reaching individuals requires a welcoming approach
- Inclusive multicultural outreach must take complexities of reality that people face every day into account



Introduction to Creating More Equitable Recycling Outreach



thing to do, and a circle duth at of others), recycling is a strongly felt social good, the "morally right" many programs do not adopt this view and continue to serve people with one-size-fits all access, recycling education, and engagement. Equilable outreach means meeting people where they are and finding ways to engage in ways that are meaningful and resport.

O

Nearly Everyone Agrees that Recycling is Important, but Barriers are Felt University and Many Lack Clear Ease Aligning exactly with our national research, our BIPOL focused research shows 87% believe recycling is a positive action to take, but our other maniformation and the ensearch shows that and Hispanic/Latino, especially those aged 18-44, were more likely than others to feel more barriers and functions.

ot surprising given there are significant infrastructure gaps to recycling that need addressed to help communities fully participate in recycling programs.







The Free Download Includes Resources

Research-Backed Insights

Data and information supporting equitable outreach strategies.

5-Step Process to Get Started

Clear, actionable steps for implementation.

Photo Library

Photos representing the diverse communities we serve.

Customizable Messaging

Educational and instructional messaging in the following languages:

- Chinese
- Spanish
- Tagalog
- Vietnamese



 $Links to \ resources \ are in the \ guide: \ recycling partnership.org/equitable-recycling-outreach$



Get in Touch:

Jessica Levine

- Jlevine@recyclingpartnership.org
- S recyclingpartnership.org



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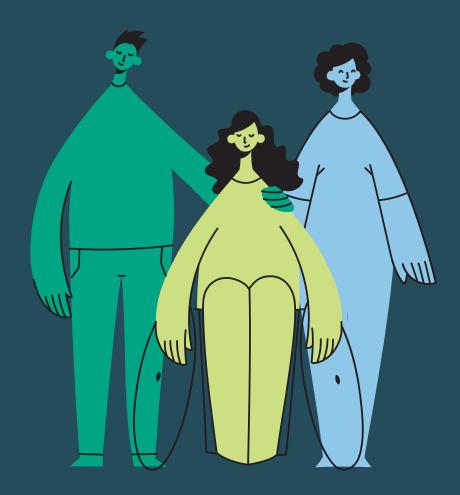
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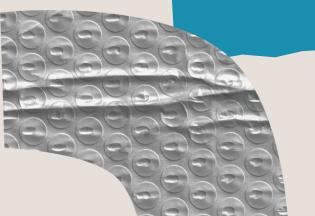


Behavioral Science Speed Talks



CONDOST BREAKING IT DOWN

Presented by: Joseph Sherlock





Λ (VERY BRIEF) INTRO

The Center for Advanced Hindsight works at the intersection of research and the real world, using behavioral science to make people happier, healthier, and wealthier at home and abroad.

Who We Are Behavioral scientists, PhD students, post-docs, interns, volunteers, and generally interesting people from across the globe

WHY WE'RE WORTH LISTENENING TO Over 250 publications & more than 50 reputable partners



OUR GOAL







OUR APPROACH



Behavioral Economics



Human Centered Design

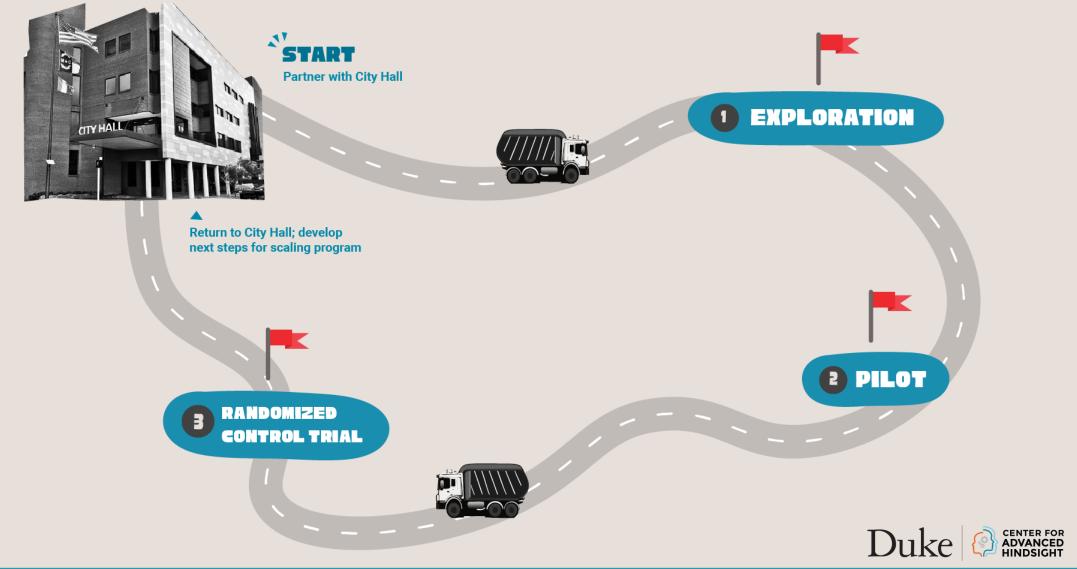


Rigorous Evaluation





OUR DESIGN JOURNEY





DHASE 1Exploration

Meet with Durham Solid Waste Management

Conduct user surveys and interviews

Define and refine program prototypes

-TEAM + SOLID WASTE MANAGEMENT + CENTER FOR ADVANCED HINDSIGHT Reducing Compostables in Durham's Residential Waste Stream WHAT WE'VE DONE WHAT WE'VE LEARNED FROM DURHAM RESIDENTS 4.400+ Resident surveys 20+ In-home interviews Marketing-and cost-matters: consider who this he household food shopper and the "consciou 2 Frontline staff engagements is accessible to and how Durham invites its composter' tends to be the same person. These 2 Resident collection prototype: diverse community in to participate. people will often aspire to reduce food waste at 4 City Hall event prototypes the source, but find it challenging. "As many visuals as possible about what this is, and what it does, finding what's important to people, would be helpful. "When we buy food in the store, there's a tendency to buy lots Making sure photos show diverse people, and so people could imagine themselves composting themselves." of stuff and then it expires. By composting, we could actually see what was wasted and plan better." "It would be easier to sell it if it came at little to no cost to you. I think I can't emphasize enough, that if you're doing this "With kids, it's hard to plan. You end up wasting a lot of food." at low cost and feel like you're making an impact, the adoption is going to be way higher. "When I think about where these landfills are, that's what motivates me to contribute as little as possible to them." Recycling, Compost and Garbage feel intimately tied, but aren't currently explicit. "What I would like to see is this in a larger waste reduction in Residents want to be compost ambassadors for general, not just food. It feels very tied into recycling and their community. *This process is simple. We try to recycle, but there can be "I gotta say this pilot program was great. I really enjoyed it. If too many restrictions on what is allowed in and it gets you do larger tests, i'd be really happy to be a part of it. I would definitely reach out to neighbors too. Poople would be down to see this kind of stuff happen 'Td be willing to go around and talk to my neighbors. We've gone around to our neighbors for other things." Children are particularly interested in participating in the composting process, and have powerful influence on their parents' choices and People are concerned about Yard Waste collection issues affecting the compost service. "My daughter really liked it. She brought food home from You must be more diligent than the yard waste. It's really school she didn't want and put it into the compost." important that you come. They'd have to come right away o 'My daughter was like. That's my trash can' I want to pull out they'd lose people. That'll be a challence." Twe had to call [to have my yard waste collected]. A li

PHASE 2 Pilot

80 household curbside composing pilot

CENTER FOR ADVANCED HINDSIGHT

Duke

User surveys and interview

Feedback-based adjustments

http://fastcompany.com

FAST@MPANY

10-15-19 | FUTURE OF PHILANTHROPY

How Durham is using user-testing to design a compost system that works

The city is starting small, figuring out how people use the system—and how they break it —as it slowly rolls it out to more and more residents.



to. monumation action

O

6

e

BY BEN PAYNTER 3 MINUTE READ

In the city of Durham, North Carolina, roughly 30% of the garbage residents throw away is compostable. Two-thirds of that is food scraps (the rest comes from paper products). The problem: Like most municipalities, the city doesn't offer a residential composting program. And not everyone has the space or desire to huild their own

Insights & RESULTS! contamination 5,550 lbs food waste diverted from landfill More participants reported using 1 or fewer trash bags per week (54% --> 70%) Composting linked to identity and values





PHASEBRandomized Control Trial

360 household trial

Modify for environmentalist spillovers

Measure trash & compost

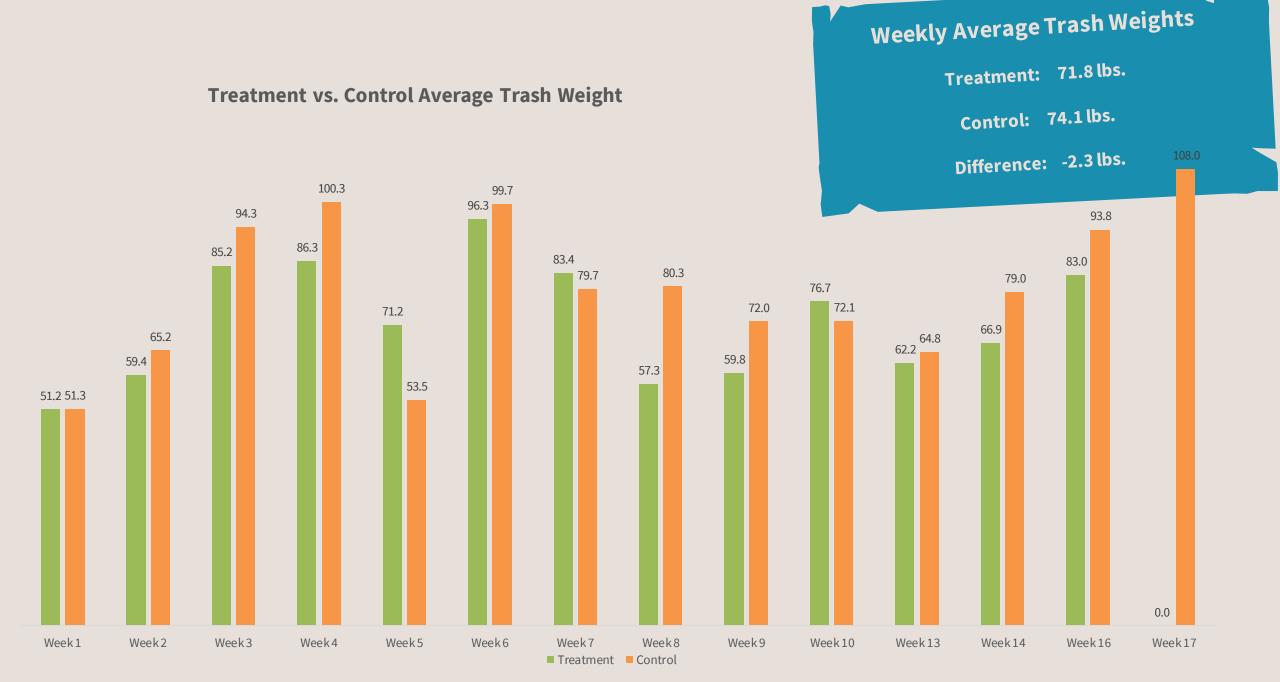
Interview and off-board

Data analysis

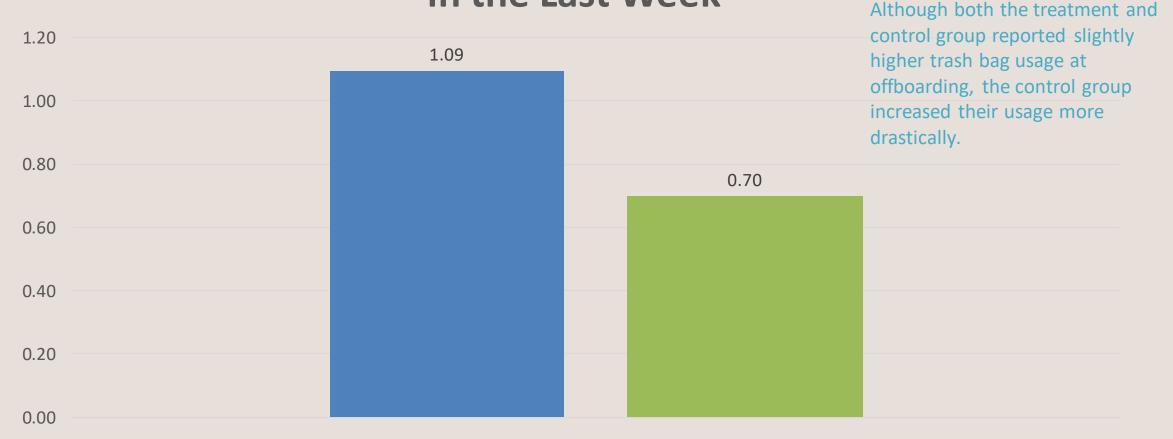


SURPERITSTATUS We are currently analyzing the effects of the RCT on participants' behaviors, feelings, and identities. Here's a sneak peek at our results...





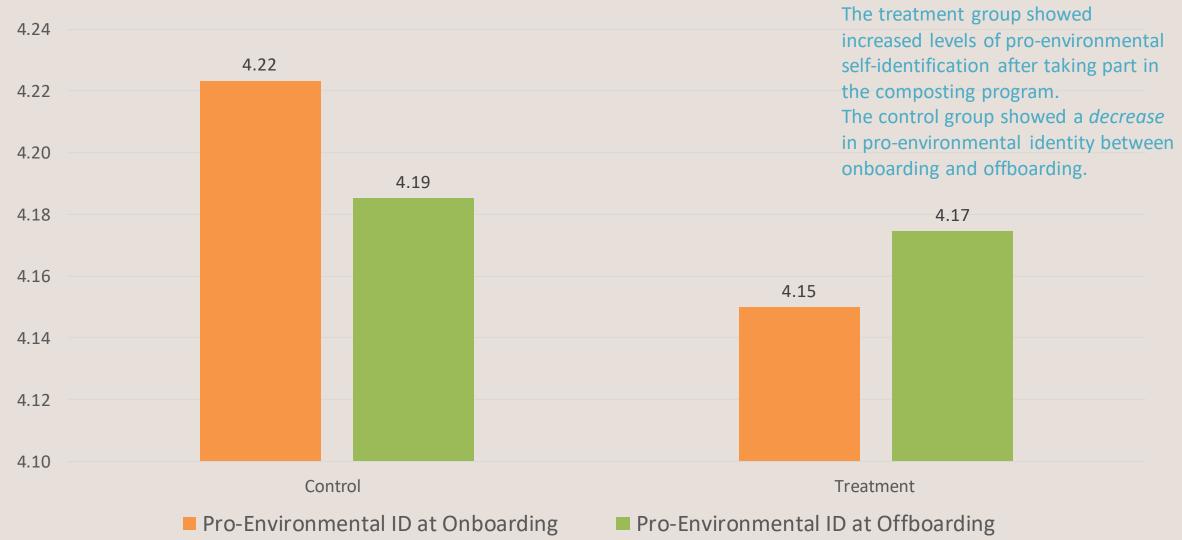
Estimated Increase in Number of Trashbags Used in the Last Week



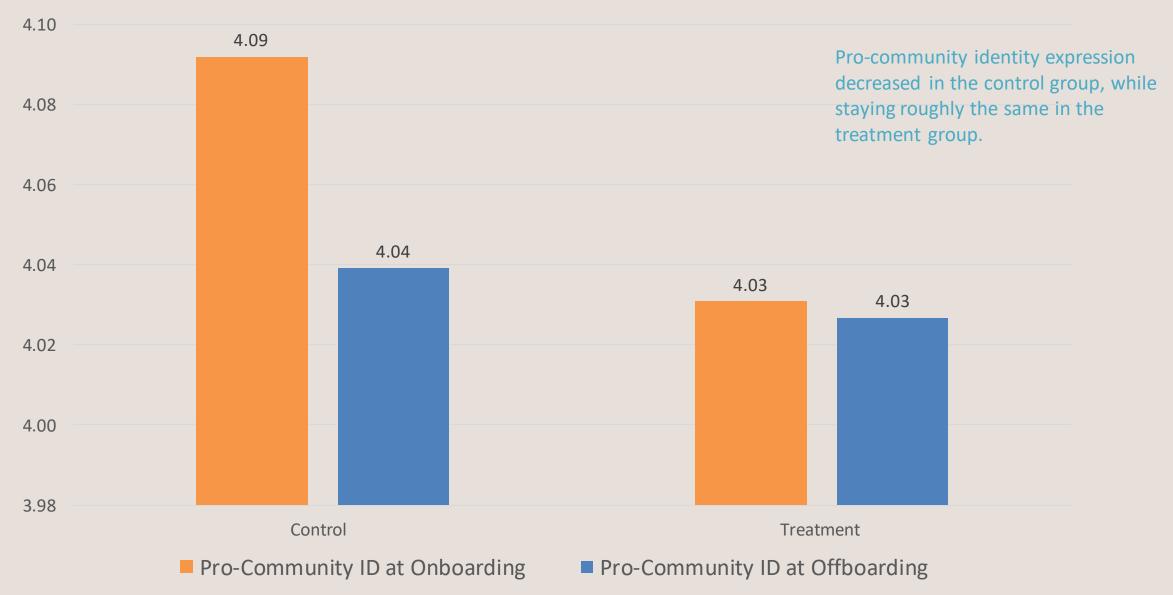
Change between onboarding and offboarding

Control Treatment

Change in Pro-Environmental Self-Identification

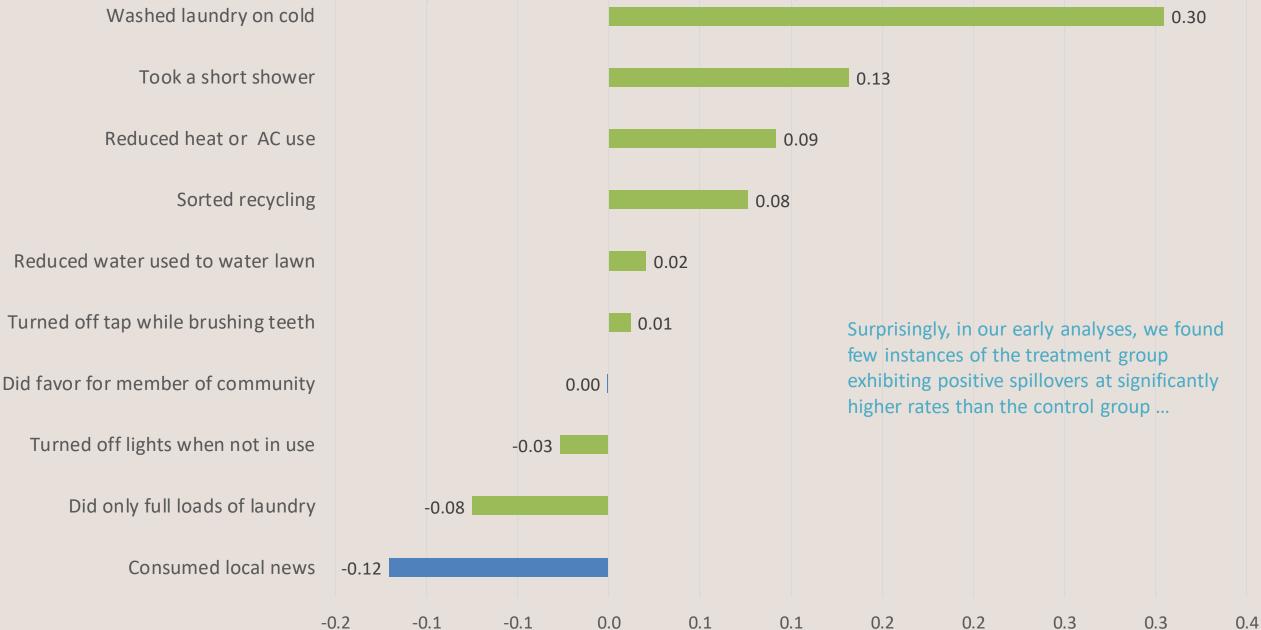


Change in Pro-Community Self-Identification



Subjective Frequency (never- always) of Pro- Environmental and Pro-Community Spillovers

(difference between treatment and control)

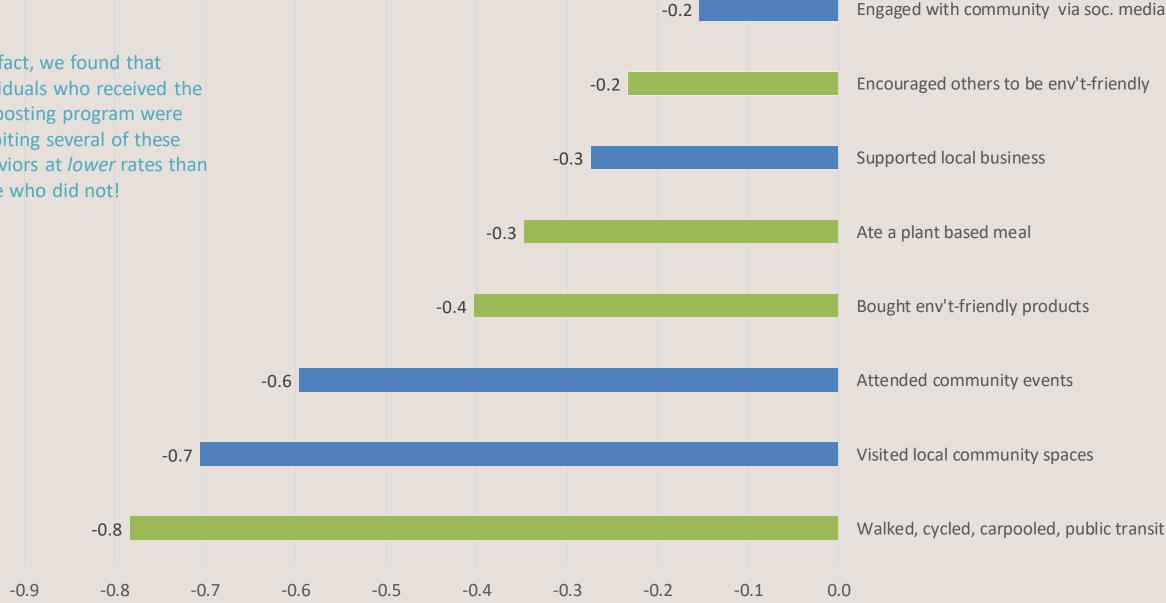


Numeric Frequency of Pro- Environmental and Pro-Community Spillovers

(difference between treatment and control)

... In fact, we found that individuals who received the composting program were exhibiting several of these behaviors at *lower* rates than those who did not!

-1.0



IMPACT



Scalability

City of Durham to create "How To" guide for other municipalities to emulate once local programming is complete



Environmentalism

Increasing awareness and accessibility of composting reduces greenhouse gases and promotes healthy soil



Capacity Building

By partnering with community stakeholders, we build their capacity to create data-informed programs



RESOURCES

<u>Center for Advanced Hindsight:</u> Advanced-hindsight.com



<u>City of Durham:</u> durhamnc.gov/935/Composting



KEEP IN TOUCH

Joseph Sherlock, Principal Researcher





Social Norms and Sustainable Behavior

February 21, 2024





TAKE HOME MESSAGE

We can leverage the human desire for belonging and drive behavior change by strategically highlighting what other people do or approve of doing.







What other people DO

What other people APPROVE or DISAPPROVE of





What we believe other people DO

Solution What we believe other people APPROVE or DISAPPROVE of





Descriptive Norms What we believe other people DO

Injunctive Norms What we believe other people APPROVE or DISAPPROVE of



Evidence for the Impact of Social Norms on Behavior

ENERGY + TRANSPORTATION	WATER	WASTE + RECYCLING	HOTEL TOWELS, LITTER, & MORE
 Abrahamse et al. (2007) Nolan et al. (2008) Ayres et al. (2009) Bator et al. (2019) Bator et al. (2013) 	 Dickerson et al. (1992) Kurz et al. (2005) Schultz et al. (2019) Bhanot (2021) 	 Schultz (1999) Wang & Katzev (1990) Viscussi et al. (2014) Hewitt et al. (2023) 	 Goldstein et al. (2008) Schultz et al. (2008) Cialdini, et al. (1990) Staats et al. (2011) Carrico et al (2013)





Research Guidance Norms are Powerful, Use Wisely!

Highlight the desired norm



Show comparisons to similar others



Social influence is underestimated





Join Your Salinas Valley Neighbors by Properly Placing Your Food Scraps in the Green Cart

Our program turns food scraps into compost that can enrich the soil on our farms and in our home gardens while keeping waste out of the landfill.

• Burnt toast? That's compost!

Strawberries spoiled?
 That's compost for your soil.

Reduce Waste Going to Landfills

• In the landfill food scraps go to waste but in your green cart they become compost for our farms and

home gardens. Need More Space in Your Trash Cart?

 Trash Cart?
 Together, we are enriching

 • Place food scraps where they belong, in your green cart.
 Together, we are enriching

Food Scraps Come From:



of residents think it's

important to reduce the

amount of waste going to

scraps in t he green cart.

the landfill by placing food

Real World Example

Injunctive Norms

79% of residents think it is important to reduce the amount of waste going to the landfill by placing food scraps in the green cart.

Salinas Valley Solid Waste Authority





February 2022

Dear Soledad Resident,

In early January, a letter was sent telling you about a new state requirement for recycling food scraps instead of disposing of them in the trash. To meet the requirement, food scraps from residents in our City and throughout the Salinas Valley Region are now going in our green carts so they can be turned into compost.

SalinasValleyRecycles.org

Ahead of the new food scraps recycling program, we knew there would be widespread support from residents for this change in household routines. Residents in our region share the belief that making compost from food scraps is the right thing do and 79% think it is important to reduce waste going to the landfhll¹.

In only the first six weeks of this program, 23% of households in your neighborhood placed their food scraps in the green cart instead of the trash. The number of households will continue to grow as more of our neighbors create new food scrap habits.

As a reminder, *if it grows, it goes!* Collect food scraps from meal prep, the end of a meal, and even food that has gone bad in your refrigerator and place it unbagged in your green cart.

On behalf of the City of Soledad, Salinas Valley Recycles, and Tri-Cities Disposal & Recycling, thank you for your participation. For questions about this program, please visit the Salinas Valley Recycles website: https://svswa.org/residential/foodscraps.

Sincerely,

City of Soledad

¹ 2021 survey of Salinas Valley residents.

248 Main Street, P.O. Box 156, Soledad, CA 93960 • Phone (831) 223-5000 • Fax (831) 678-3965 • CityofSoledad.com Printed on 100% postconsumer recycled paper.

Real World Example

Dynamic Norms

In only the first 6 weeks... 23% of households in your neighborhood placed food scraps in the green cart. The number will continue to grow.



Real World Examples

Grouping Commitments to Highlight Approval



Houston Zoo



Orange County Stormwater





Real World Examples GRIMMER NEIGHBORHOOD **Composting Report Compare to Similar Others** See how your neighborhood stacks up with food scrap composting. REEP THOSE SCRAPS. Join Wenham Neighbors In Summer Water Savings! FREMONT FOOD SCRAP COMPOSTING COMPARISON How do you compare? NEIGHBORHOODS COMPOSTING METER NEAR YOU ore than half of Wenham residents—including Town Hall don't water their lawns in the summer. These residents are not only saving money, but also doing their part to save water. To prepare for this Above Average South summer, we wanted to let you know where you stand based on your water Sundak usage last summer Average Average Water Use Per Month (May-July 2016) Below Average 0 8000 (::)Here's how your neighborhood 6000 5000 6000 compares to others in Fremont. Your Neighborhood During May, June, and July 2016, your household used 4000 less water 2000 than the average similar-sized Wenham household. YOUR COMPOSTING RATE Neighbors You Your household is doing a good job regarding your water usage. Check out the Healthy Lawn, Happy Summer flyer for tips to reduce your water use. Your food screp composting rate is calculated as the percentage of total waste collected. Together, we can conserve Wenham's A higher percentage means water resources while keeping our that a neighborhood composted lawns healthy all summer. "Join me in keeping food scraps more and produced less waste. out of the landfill. It's easy-just put them in the green bin." Thank you for helping your community! M. Fraticelli, Fremont www.wenhamma.gov/waterconservation

Mass DEP

Stopwaste.org

TAKE HOME MESSAGE

We can leverage the human desire for belonging and drive behavior change by strategically highlighting what other people do or approve of doing.



Get in Touch:

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Social Norms and Sustainable Behavior

February 21, 2024





TAKE HOME MESSAGE

We can leverage the human desire for belonging and drive behavior change by strategically highlighting what other people do or approve of doing.







What other people DO

What other people APPROVE or DISAPPROVE of





What we believe other people DO

Solution What we believe other people APPROVE or DISAPPROVE of





Descriptive Norms What we believe other people DO

Injunctive Norms What we believe other people APPROVE or DISAPPROVE of



Evidence for the Impact of Social Norms on Behavior

ENERGY + TRANSPORTATION	WATER	WASTE + RECYCLING	HOTEL TOWELS, LITTER, & MORE
 Abrahamse et al. (2007) Nolan et al. (2008) Ayres et al. (2009) Bator et al. (2019) Bator et al. (2013) 	 Dickerson et al. (1992) Kurz et al. (2005) Schultz et al. (2019) Bhanot (2021) 	 Schultz (1999) Wang & Katzev (1990) Viscussi et al. (2014) Hewitt et al. (2023) 	 Goldstein et al. (2008) Schultz et al. (2008) Cialdini, et al. (1990) Staats et al. (2011) Carrico et al (2013)





Research Guidance Norms are Powerful, Use Wisely!

Highlight the desired norm



Show comparisons to similar others



Social influence is underestimated





Join Your Salinas Valley Neighbors by Properly Placing Your Food Scraps in the Green Cart

Our program turns food scraps into compost that can enrich the soil on our farms and in our home gardens while keeping waste out of the landfill.

Nothing Goes to Waste • Burnt toast? That's compost!

• Strawberries spoiled? That's compost for your soil. Reduce Waste Going to Landfills

 In the landfills
 In the landfill food scraps go to waste but in your green cart they become

compost for our farms and home gardens.

Need More Space in Your Trash Cart?

 Place food scraps where they belong, in your green cart.
 the soil on farms and in home gardens throughout our valley.

Food Scraps Come From:



of residents think it's

important to reduce the

amount of waste going to

scraps in t he green cart.

the landfill by placing food

Together, we are enriching



Real World Example

Injunctive Norms

79% of residents think it is important to reduce the amount of waste going to the landfill by placing food scraps in the green cart.

Salinas Valley Solid Waste Authority





February 2022

Dear Soledad Resident,

In early January, a letter was sent telling you about a new state requirement for recycling food scraps instead of disposing of them in the trash. To meet the requirement, food scraps from residents in our City and throughout the Salinas Valley Region are now going in our green carts so they can be turned into compost.

SalinasValleyRecycles.org

Ahead of the new food scraps recycling program, we knew there would be widespread support from residents for this change in household routines. Residents in our region share the belief that making compost from food scraps is the right thing do and 79% think it is important to reduce waste going to the landfill¹.

In only the first six weeks of this program, 23% of households in your neighborhood placed their food scraps in the green cart instead of the trash. The number of households will continue to grow as more of our neighbors create new food scrap habits.

As a reminder, *if it grows, it goes!* Collect food scraps from meal prep, the end of a meal, and even food that has gone bad in your refrigerator and place it unbagged in your green cart.

On behalf of the City of Soledad, Salinas Valley Recycles, and Tri-Cities Disposal & Recycling, thank you for your participation. For questions about this program, please visit the Salinas Valley Recycles website: <u>https://svswa.org/residential/foodscraps</u>.

Sincerely,

City of Soledad

¹ 2021 survey of Salinas Valley residents.

248 Main Street, P.O. Box 156, Soledad, CA 93960 • Phone (831) 223-5000 • Fax (831) 678-3965 • CityofSoledad.com Printed on 100% postconsumer recycled paper.

Real World Example

Dynamic Norms

In only the first 6 weeks... 23% of households in your neighborhood placed food scraps in the green cart. The number will continue to grow.

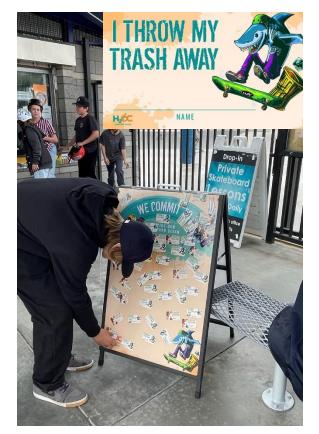


Real World Examples

Grouping Commitments to Highlight Approval



Houston Zoo







Cal Recycle Used Oil Block Grantee



Real World Examples GRIMMER NEIGHBORHOOD **Composting Report Compare to Similar Others** See how your neighborhood stacks up with food scrap composting. REEP THOSE SCRAPS. Join Wenham Neighbors In Summer Water Savings! FREMONT FOOD SCRAP COMPOSTING COMPARISON How do you compare? NEIGHBORHOODS COMPOSTING METER NEAR YOU ore than half of Wenham residents—including Town Hall don't water their lawns in the summer. These residents are not only saving money, but also doing their part to save water. To prepare for this Above Average South summer, we wanted to let you know where you stand based on your water Sundak usage last summer Average Average Water Use Per Month (May-July 2016) Below Average 0 8000 (::)Here's how your neighborhood 6000 5000 6000 compares to others in Fremont. Your Neighborhood During May, June, and July 2016, your household used 4000 less water 2000 than the average similar-sized Wenham household. YOUR COMPOSTING RATE Neighbors You Your household is doing a good job regarding your water usage. Check out the Healthy Lawn, Happy Summer flyer for tips to reduce your water use. Your food screp composting rate is calculated as the percentage of total waste collected. Together, we can conserve Wenham's A higher percentage means water resources while keeping our that a neighborhood composted lawns healthy all summer. "Join me in keeping food scraps more and produced less waste. out of the landfill. It's easy-just put them in the green bin." Thank you for helping your community! M. Fraticelli, Fremont www.wenhamma.gov/waterconservation

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Wishcycling

Erez Yoeli with Eli Kramer and Dave Rand



Survey a representative sample of ~700 Americans...

Survey a representative sample of ~700 Americans...

1. Ask participants whether they recycle

2. If respond yes: quiz to assess recycling knowledge

3. Assess attitudes towards recycling and climate change



Item	Photo	Category	Item	Photo	Category	ltem	Photo	Category
Cardboard		Unambiguous recyclables	Utensils	5	Unambiguous non-recyclables	Empty peanut butter jar	COD	ambiguous
Jar		Unambiguous recyclables	Coffee cup (photo changed)	-	Unambiguous non-recyclables	Oily pizza box		ambiguous
Paper		Unambiguous recyclables	Hanger	2	Unambiguous non-recyclables	Dirty tinfoil	T SA	ambiguous
	\sim	Plast	Plastic bag	18	Unambiguous non-recyclables		Automatic and a Distant	
Container	1999	Unambiguous recyclables		Triffings, MC-3		Dirty can (photo changed)	8	ambiguous
-			Pizza box with leftover pizza	-	Unambiguous non-recyclables			
Tuna can	"	Unambiguous recyclables	Full peanut butter		Unambiguous non-recyclables			
						Dirty container		ambiguous
Tin foil		Unambiguous recyclables	Dirty paper plate		Unambiguous non-recyclables			

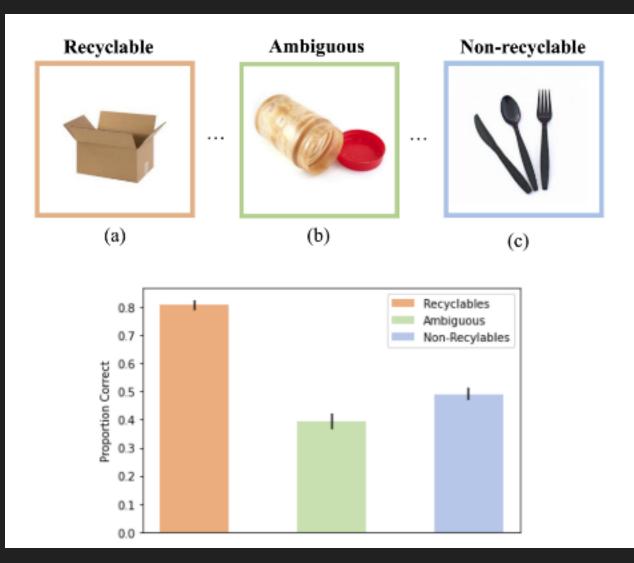
Results...

80% of respondents report that they recycle

80% of respondents report that they recycle

	(1)	(2)	(3)	(4)
Climate Gravity Question	0.058***		0.054**	
	(0.015)		(0.018)	
Recycling Importance Scale		0.103***		0.097***
		(0.015)		(0.018)
Individual Characteristics	No	No	Yes	Yes
Observations	635	638	554	554
Adjusted R ²	0.021	0.069	0.057	0.091

Recyclers' Performance on the Quiz



	With Ambig	guous Items	Without Ambiguous Items		
	(1)	(2)	(3)	(4)	
Climate Gravity Question	-0.036***		-0.030***		
	(0.007)		(0.007)		
Recycling Importance Scale		-0.028***		-0.021^{**}	
		(0.008)		(0.008)	
Controls for Individual Characteristics	Yes	Yes	Yes	Yes	
Observations	8,152	8,152	5,887	5,887	

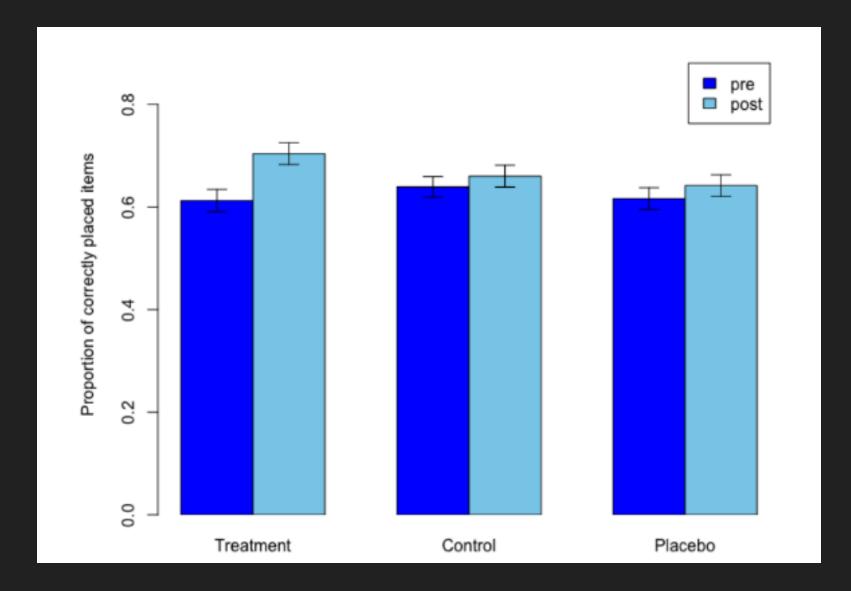
Already motivated to help, but motivation is channeled ineffectively.

Can an informational intervention work?

Already motivated to help, but motivation is channeled ineffectively.

Can an informational intervention work?





Questions? Suggestions?

eyoeli@mit.edu

Unlocking Recycling's Potential: Day 1

February 21, 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

Ideate, Prioritize & Refine Solutions

Prototype, Test, Launch, Assess

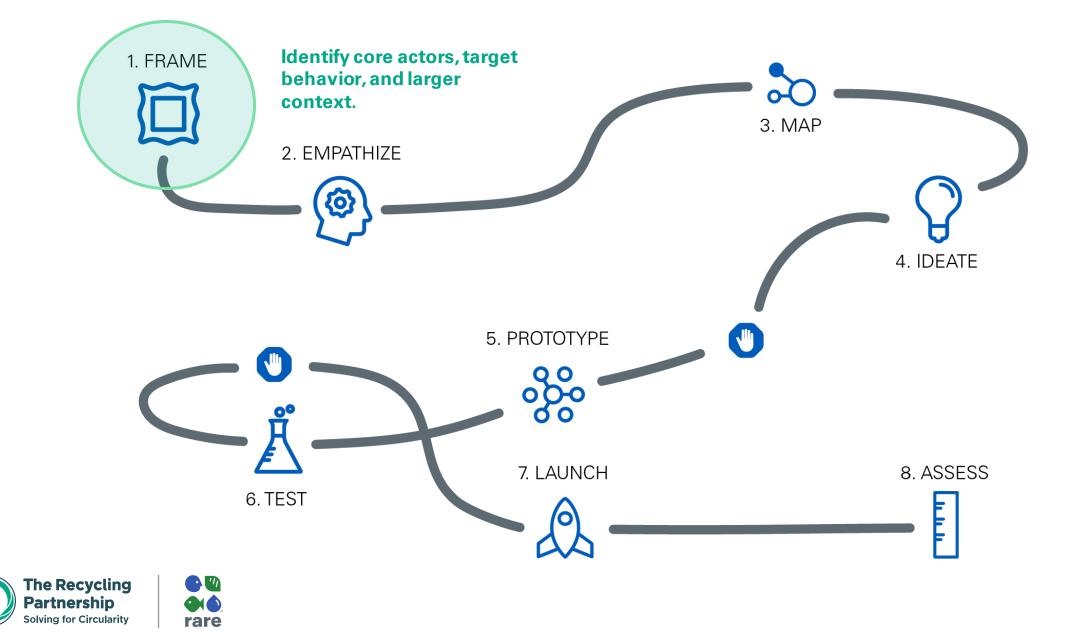
Equity - What's next?



Framing the Challenge



The Behavior-Centered Design Journey



Frame

What? Identify the target behavior, actors, and context for your environmental challenge.

How? Background research, problem-behavior-actor mapping, stakeholder-actor mapping, observation

Key Principles:

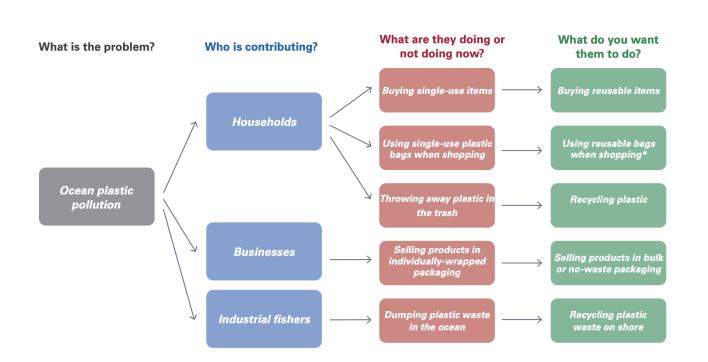
- It's important to identify the 'who' and 'what' of behavior change
- Behaviors operate within larger systems
- Beliefs, attitudes, intentions ≠ behaviors

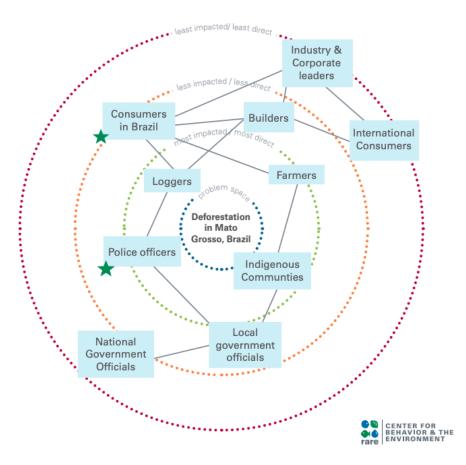
DEI Considerations:

• What are the power dynamics among actors in the larger system?



Framing the Challenge Tools



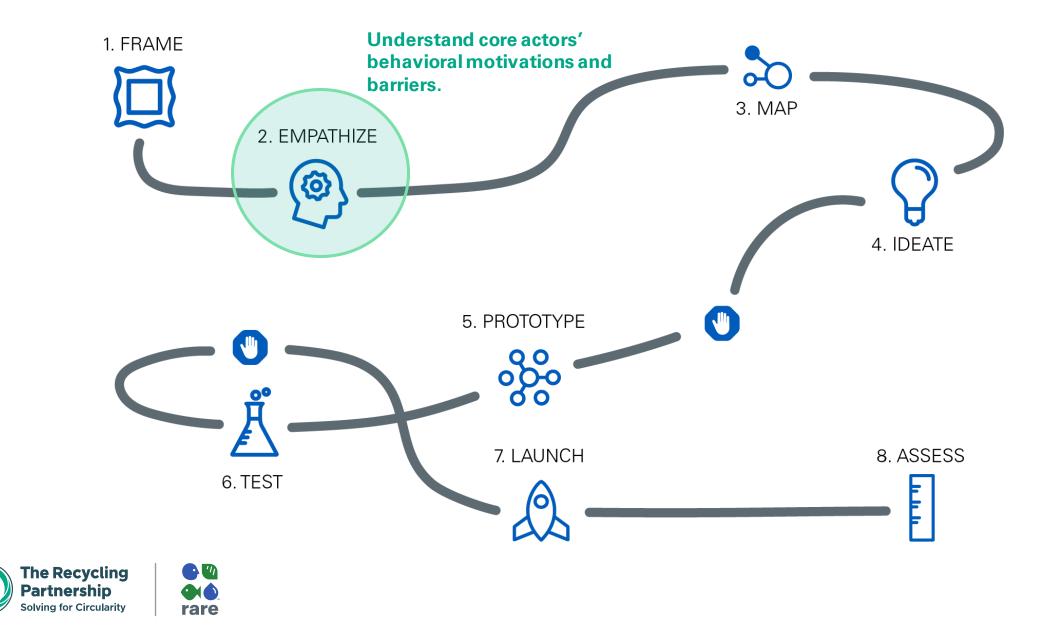




Empathizing with Our Communities



The Behavior-Centered Design Journey



Empathize

How? Surveys, key informant interviews, participant photography, observation

Key Principles:

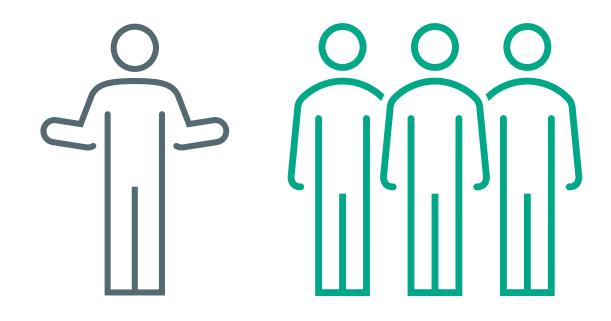
- Empathizing means understanding people in and on their own terms
- Recognizing your biases and assumptions can help you be more curious and open minded

DEI Considerations:

- Follow ethical guidelines for collecting data
- Understand your position and identity during research
- Engage in deep and active listening



Behavior Change For Good

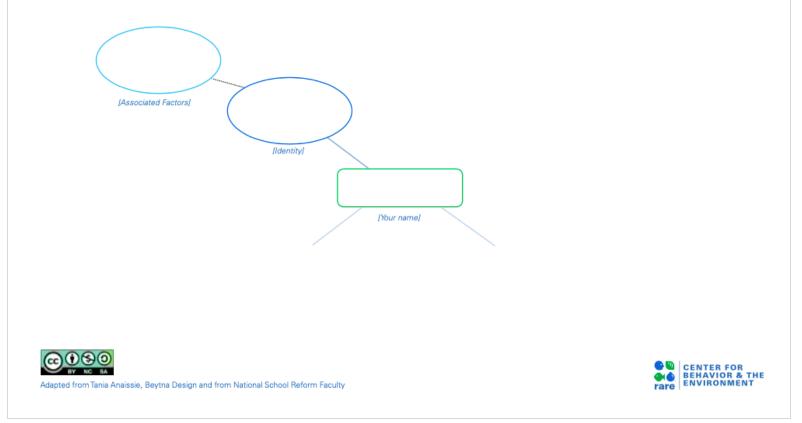


We often state that we want to use behavioral tools and strategies to influence the behaviors of other people for good. But we want to think about what that really means and how we make sure that we are indeed doing good.

It can be tempting to assume that our audience thinks like we do, has the same values, or reacts the same way, but often, they don't. When we don't take the time to understand people, and in particular, the assumptions we might be making about them, we can replicate the same status quo conditions we're trying to change. Though we have the best intentions, we may in fact cause harm if we are not thoughtful about how we make decisions. It's crucial that we are responsive to the people we're working with and not to our own assumptions.

Paseo Protocol

Use the space below to visualize the identities and experiences you are bringing to your design work. 1) Write your name in the center. 2) Draw lines to add words or phrases describing different identities you hold. 3) Add associated factors or meanings for each identity. 4) On the next page, use the questions to reflect on how your values, identities, and experiences could affect how you approach your current behavior change project.



Pros/Cons, and Considerations to Make the Most of Research

	Quantitative	Qualitative		
PROS	 Defined confidence in insights 	• Exploratory		
	 Correlations tell a story 	• Anecdotes can be powerfully real, relatable		
	Comparable over time	 Most people like to talk about recycling 		
CONS	 Limited depth of individual insights 	 Uncontrolled, context specific settings 		
	 Beware of canned answers 	 Social dynamics are unpredictable 		
	Waste behaviors are complicated thus short	 Curiosity can take over 		
	questions may be flawed (and long questions may also be flawed)	 Results lack defined confidence 		
CONSIDER	 Reasonable confidence within smaller demographic groups requires planning 	 Developing a panel of reviewers or participants 		
	 Standard methods may not be equitable 	 Plan for developing sharable insights 		
	Transcreation of questions	"snacks" for stakeholders		



There are many behaviors and data points to track





Participant Diaries



Focus groups, Interviews

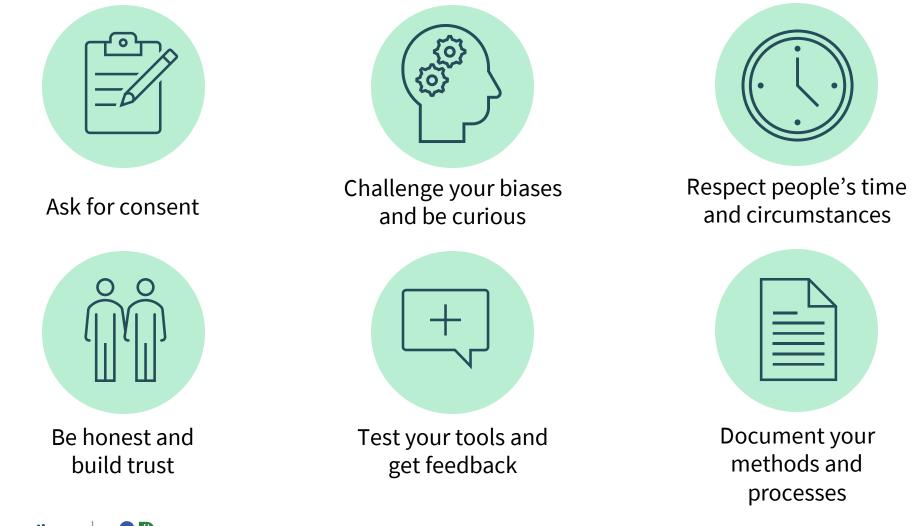








Research Best Practices

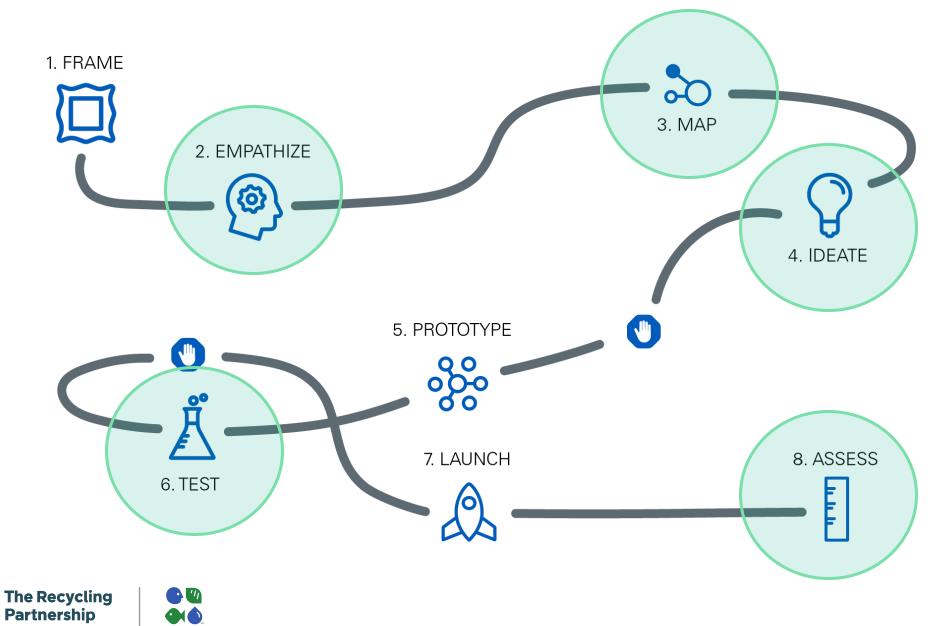




The Importance of Good Data

Solving for Circularity

rare



Types of Recyclers

Elizabeth Schussler Sr Dir Social Change, Behavior, & Impact

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.

Despite High Levels of Public Support, 50% of Recyclables Lost Due to Behavior Gaps



These 10 homes generate 7,680 lbs of recyclable material per year.



3 of the 10 don't participate in recycling at all. They dispose of 2,150 lbs of recyclable materials each year.



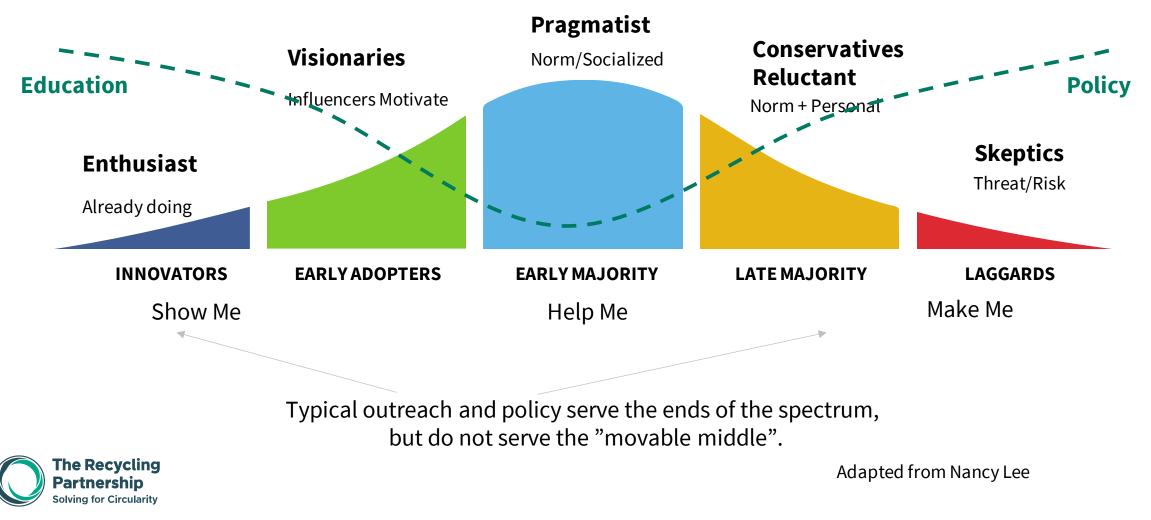
Those that do participate still put some (38.5%) of their materials in the trash, disposing of another 2,130 lbs.

	Participant Capture Rate
Cardboard	81%
Natural HDPE	
Bottles	64%
Glass	62%
Mixed Paper	61%
Colored HDPE	
Bottles	57%
PET Bottles	56%
Aluminum Cans	55%
Aseptic/Cartons	51%
Steel Cans	48%
Non-bottle PET	44%
Bulky Rigids	39%
Polypropylene	30%



Tailoring: What do we know about participation in a city? How can data shape our strategy?

TYPICAL ADOPTION CURVE-Inverse reach



Why Segment Audiences?

What people SAY about recycling informs our interventions...

Behavior measures (what they DO and how they respond), are more specific metrics of success.

Participating and Accurate Are they as secure as they appear?

Participating but Contaminating

Why do they continue to put the wrong items into their recycling cart?

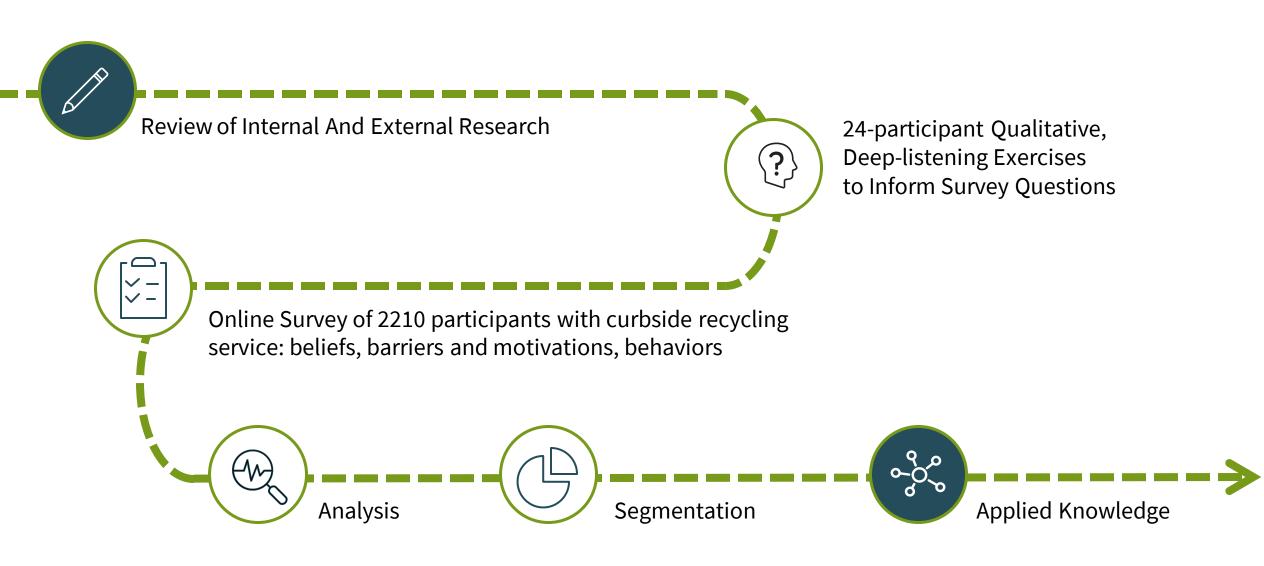
Not (YET) Participating

Why aren't they participating? What would it take to change their behavior?



Based on our Feet on the Street data

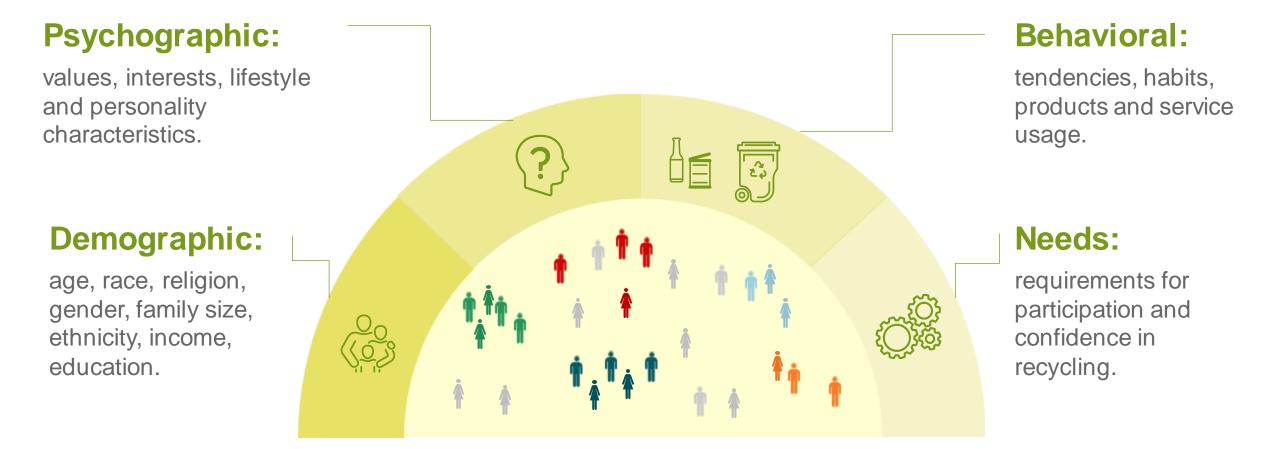
Our Process From Research to Applied Knowledge





Segmenting Respondents into Predictive Groupings

Categories of inquiry that shape segmentation





12% don't recycle and are distributed across the segments.

5 Types of Recyclers	Eco	Committed	Discouraged Self-Doubters (18%)	Detached Abiders (16%)	Conflicted, 🖄 Overwhelmed (16%)		
Segment Tendencies (but not exclusives)	45+ yo, higher income & education, larger home, more Asian, fewer Black	45+ yo, higher income, average race/ethnicity mix	18-64 yo, lower income & education, smaller household, more Black	45+ yo, small households, more conservative	18-64 yo, mid-upper income, larger household, more Hispanic, Black, Asian		
Recycling <u>fill in blank</u> + Inclinations	Protects the planet • Social, Emotional	Is right to do, a civic duty • Private, Practical	Reduces waste • Private, Practical	Is or feels required • Private, Emotional	Could help me and the planet • Social, Emotional		
2 groups	roups MORE DEDICATED			LESS DEDICATED			
Feelings about recycling	HOPEFUL PROUD PASSIONATE FRUSTRATED	IMPORTANCE RESPONSIBILITY CONFIDENT COMMUNITY	GUILT CONFUSED TOO HARD ALONE	FOLLOWING ALONG UNSURE CONFUSED RESENTFUL	PASSIONATE JUDGED ANXIOUS TOO MUCH EFFORT		
Behaviors around recycling	 Research and teach Overcome issues 	OrganizedIntentionalConsistent	 Defer to labels (pckg, bin) Low effort Resent lack of support Doubt selves, process 	 Organized Defer to gov, friends Low effort, detail Doubt benefits 	 Research and teach Defer to digital, friends Resent warnings, fines Don't go out of the way 		



12% don't recycle and are distributed across the segments.

5 Types of Recyclers	Eco Activators (25%)	Committed	Discouraged Self-Doubters (18%)	Detached 🏤 Abiders (16%) 🗉	Conflicted, 🖄 Overwhelmed (16%)
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Feelings about recycling Positive Negative	 Hopeful Proud Passionate I'm not doing enough Disappointed 	 Important, easy Responsibility Confident Connected to others 	 I could do more Guilt Confused Takes too much effort Alone 	 It is expected Unsure about benefits Confused Overwhelmed Disconnected 	 I could do more Passionate Judged (do or don't) Anxious, exhausted Worried, embarrassed Takes too much effort
Behaviors around recycling	 Research and teach Overcome issues Learned + improved Like to sort Doubt others recycle No info = wishcycle 	 Organized Intentional Consistent Learned + improved No info = wishcycle 	 Defer to labels (pckg, bin) Ignore, avoid Low effort Resent lack of support Doubt selves, process 	 Organized Defer to gov, friends Low effort, detail Resent requirements Doubt others recycle Doubt benefits 	 Research and teach Crave organization Defer to digital, friends Frustrated, too hard Resent warnings, fines Don't go out of the way
Needs + Conditions to recycle (incl reassurance and positive impacts)	 System investment More participation More information Expand accepted 	 Feedback Expand accepted More predictability 	 Invitation, appeal More encouragement In-home bins, tips Frequent reminders Quick reference 	 Invitation, appeal Gratitude, incentive Local pride, support Address cost/benefit Econ development 	 In-home bins, tips Address cost/fines Gratitude, incentive Frequent reminders Customer service
Universal needs		• Recycling is worth the ef	fort – benefits, impacts, relia	<i>y</i> , <i>y</i> , <i>i</i> , <i>i</i> , <i>o</i>	

• Tips: "How clean is clean?"

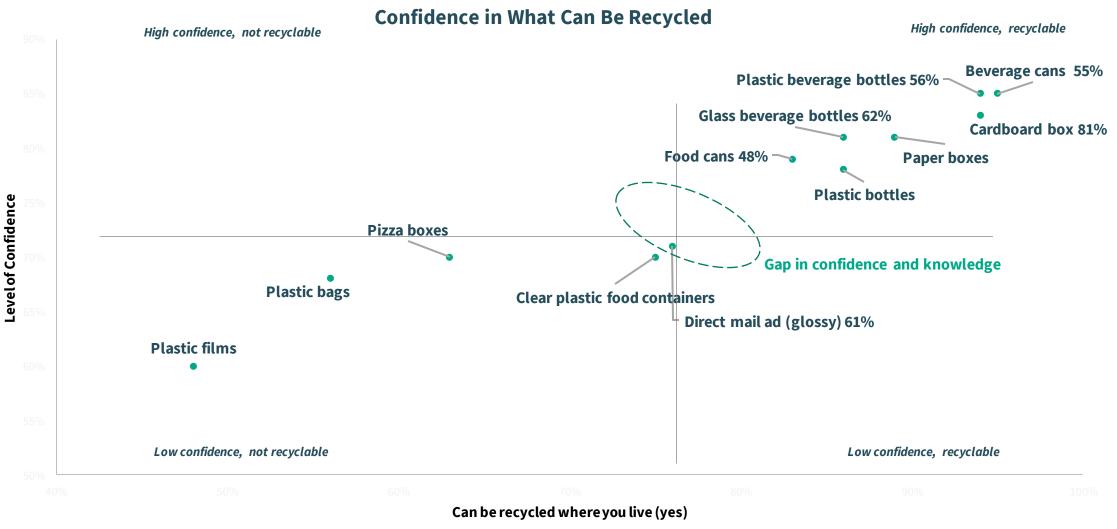
• Tailored instructional information

• Social proof that others are participating, and that leadership supports recycling.

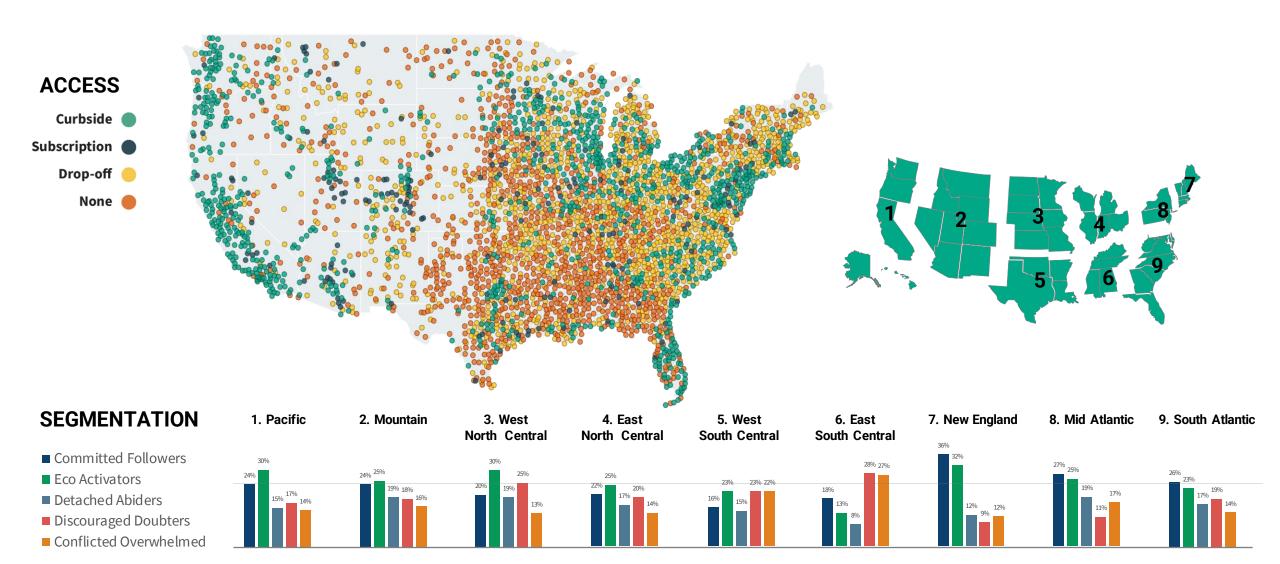


Material Deep Dive

Confidence in knowledge deteriorates with items that have food residue, are complex materials (e.g., glossy vs plain paper), or are less consistently recyclable.

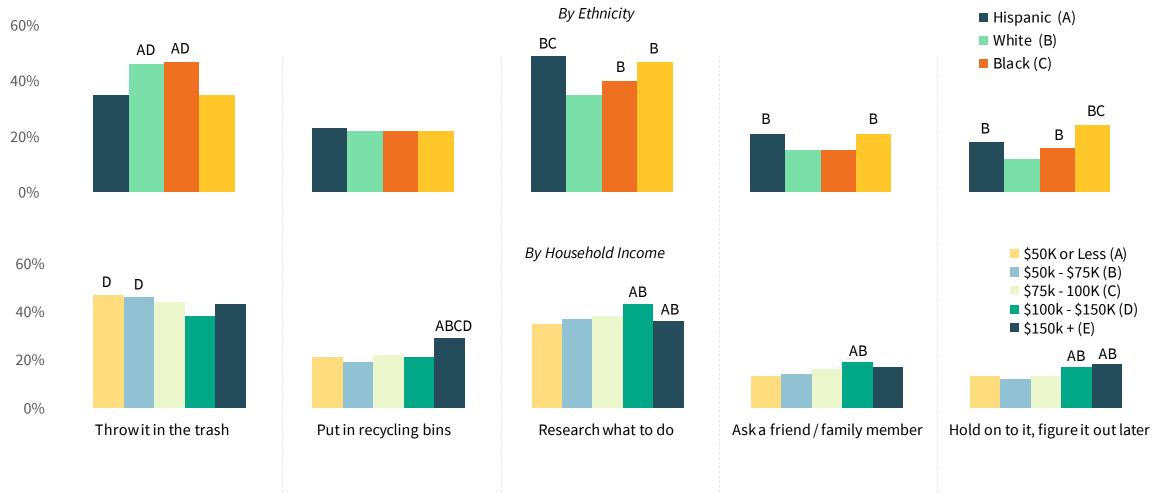








White, as well as lower income households, are less likely to figure out whether to recycle items.

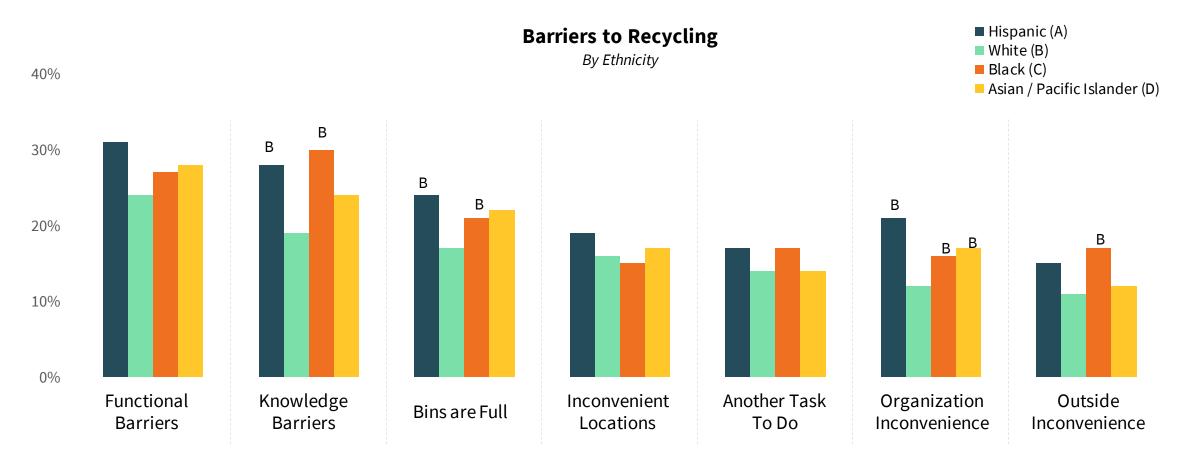


Action When Don't Know What To Do



How to read: If there's a letter inside of the bar, it means that **bar is significantly highe**r than the same bar/sample with the corresponding letter for that attribute. Ex: Household under \$75K are more likely to trash unknown items than \$100K-\$150K HHs.

Hispanic/Black households report more knowledge barriers.



How to read: If there's a letter on top of the bar, it means that **bar is significantly highe**r than the bar/sample with the corresponding letter for that attribute. Ex: Hispanic/black households are more likely to experience knowledge barriers than white households.



Activity: Discuss how you can apply this audience segmentation to your case study?

1



Discuss key motivations and barriers from your case study dataset. Why do you think the core actors are currently doing or not doing the target behavior? 3

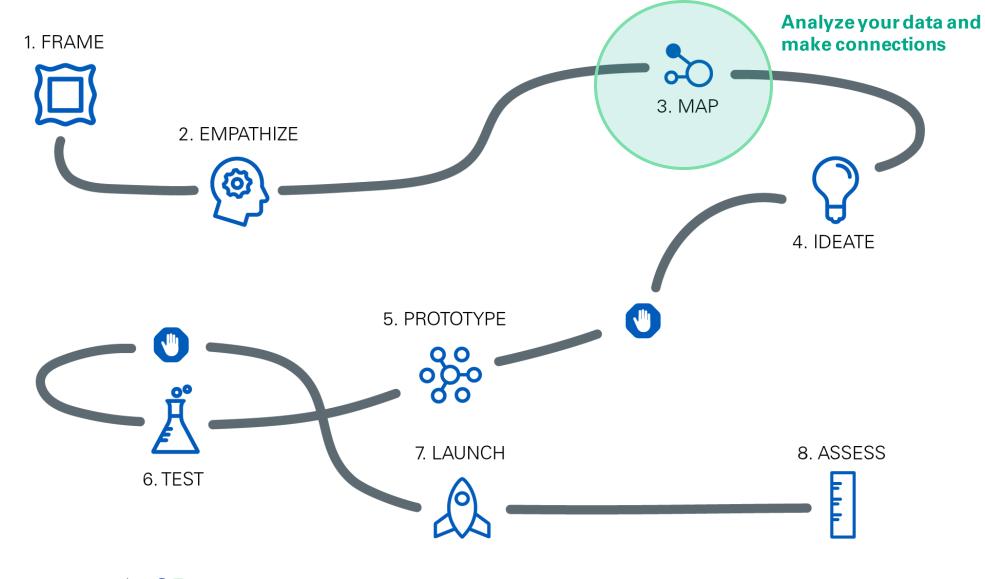
Are there any trends you notice among segments of people represented in the data?



Mapping Behavioral Insights



The Behavior-Centered Design Journey





Мар

What? Draw causal links between data and behavioral science.

How? Write hypotheses about the motivations and barriers that are likely to increase our target behavior.

Key Principle:

• Ground your hypothesis about what could change behavior in observation and science

DEI Considerations:

- Build your hypotheses based on data, not assumptions
- Consider how context affects motivations and barriers





Step 1 Activity: Data Processing





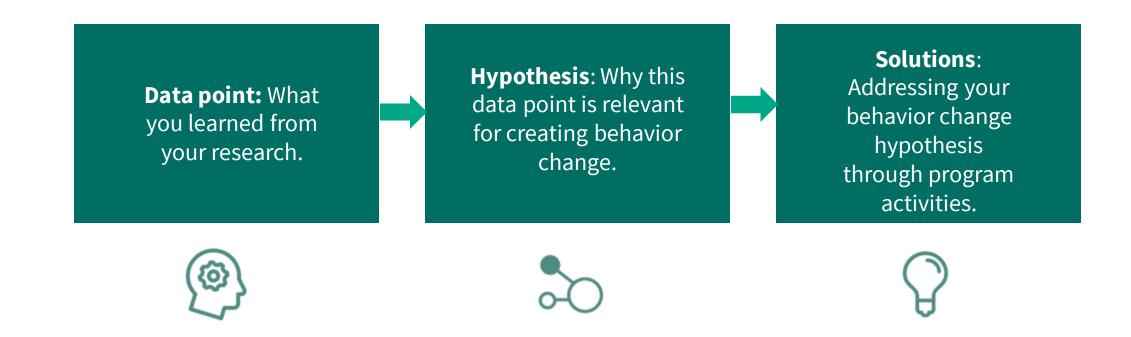
Review your data for your case and notes from the Empathize step. Remember to question your assumptions! Based on your experience and data, what do you think is most likely to make a difference?



In your groups, select 1-2 key motivations/barriers you f ind most insightful or likely to cause behavior change

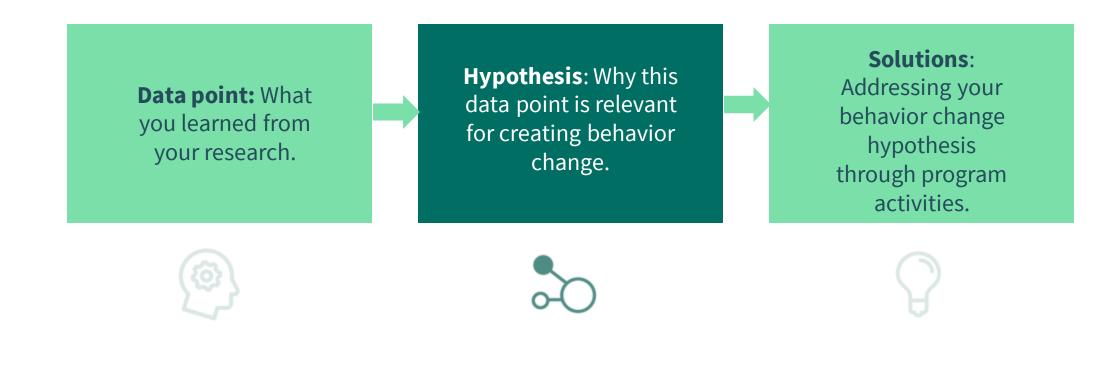


Step 2 Write a Hypothesis





Step 2 Write a Hypothesis





Translating Data to Hypothesis

Example formula:

If [target actor] believe/know/think/feel/see [desired state based on motivation or barrier] then [target actor] will [target behavior].

Example barrier: Using a reusable bag is not a visible behavior by others.

Example desired state: Believe other people are using reusable bags

Example hypothesis: If households believe other people are using reusable bags, then I expect households to bring reusable bags.



Step 2 Activity: Write a Hypothesis





Based on the 1-2 key motivations and barriers you selected as a group, identify key beliefs, attitudes, or context you want to change. Use your worksheet to develop hypotheses for behavior change.



Refine hypotheses and vote on your favorite.



Unlocking Recycling's Potential: Day 2

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

Ideate, Prioritize & Refine Solutions

Prototype, Test, Launch, Assess

Equity - What's next?



Digital Solutions to Support People







Younger citizens have unmet needs

Question	18 -44	44+
I'm confused about recycling information on packaging	More	Less
I don't know how or where to learn about local recycling	More	Less
I don't get recycling information from my local service often enough	More	Less
I want to learn more about recycling	More	Less



Younger citizens expressed a **greater gap** in knowledge as well as a **desire** to fill that gap

BIPOC citizens have unmet needs

Question	Hispanic/Black/Asian	White
I'm confused about recycling information on packaging	More	Same
I don't know how or where to learn about local recycling	More	Same
I don't get recycling information from my local service often enough	More	Same
I want to learn more about recycling	More	Less



BIPOC citizens expressed a **greater gap** in knowledge as well as a **desire** to fill that gap

Younger citizens and BIPOC populations can be best reached through digital means

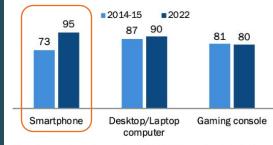


Younger citizens are largely dependent on digital devices, like smartphones.

Young BIPOC citizens live in an especially digital world.

Nearly all teens in 2022 have access to a smartphone, up from 73% in 2014-15

% of U.S. teens who say they have access to the following devices



Note: Teens refer to those ages 13 to 17. Those who did not give an answer are not shown. The 2022 question wording further clarified access at home.

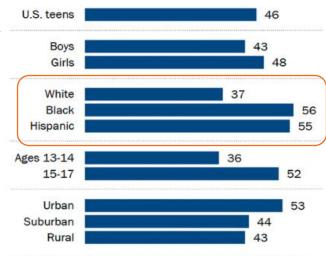
Source: Survey conducted April 14-May 4, 2022. "Teens, Social Media and Technology 2022"

PEW RESEARCH CENTER



Black, Hispanic teens more likely than White teens to say they are online almost constantly

% of U.S. teens who say they use the internet **almost constantly** either on a computer or a cellphone



Note: Teens refer to those ages 13 to 17. White and Black teens include those who report being only one race and are not Hispanic. Hispanic teens are of any race. Those who did not give an answer or gave other responses are not shown. Source: Survey conducted April 14-May 4, 2022. "Teens, Social Media and Technology 2022"

PEW RESEARCH CENTER





Address the requirements of **younger and BIPOC** demographics through methods that successfully **reach** and **engage** them



nuance

A reasonable strategy to address population needs is to provide them with information, such as a mailer







Recycling is a continual journey; information may only help in one part of it.

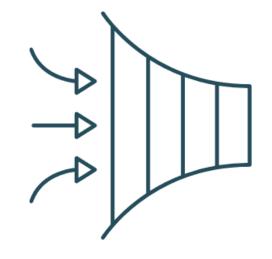


A behaviorally designed approach allows for effective engagement and habit formation.





Behavior change journeys have two broad stages



Funnel

Raising awareness and curiosity to **spark** motivation to start, or restart



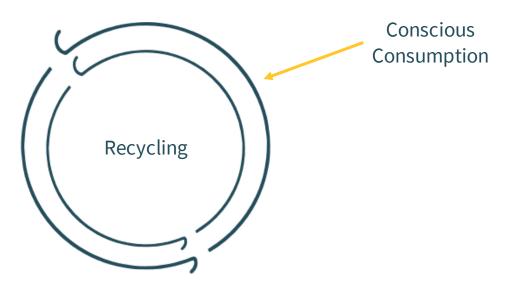
Loop

Sustaining motivation to continue, through reward, felt impact, and meaning



nuance

Core behaviors are supported by deeper levels of involvement and behavior change

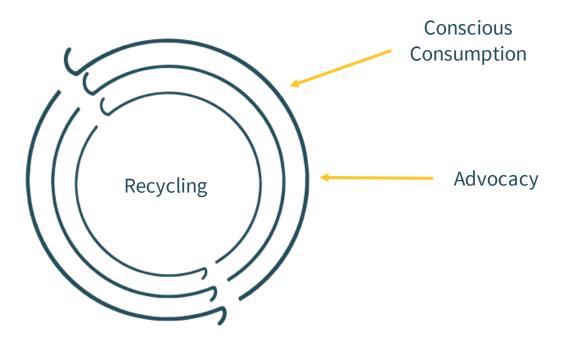






nuance

Core behaviors are supported by deeper levels of involvement and behavior change

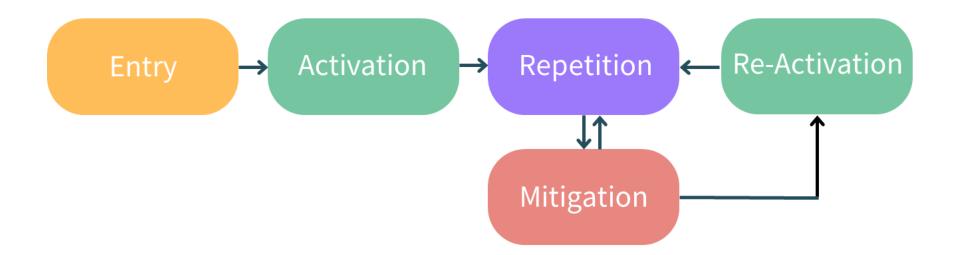




Loop



Consider where your efforts are having an impact and where greater attention is needed along the behavior change journey

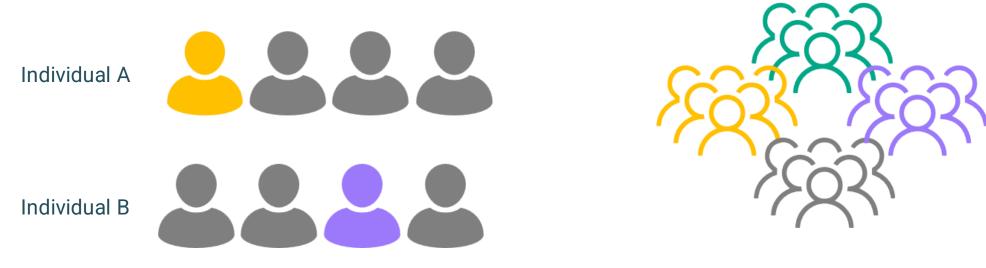


Behavioral User Journey: A framework for

outlining desired user behaviors and the strategies to facilitate them



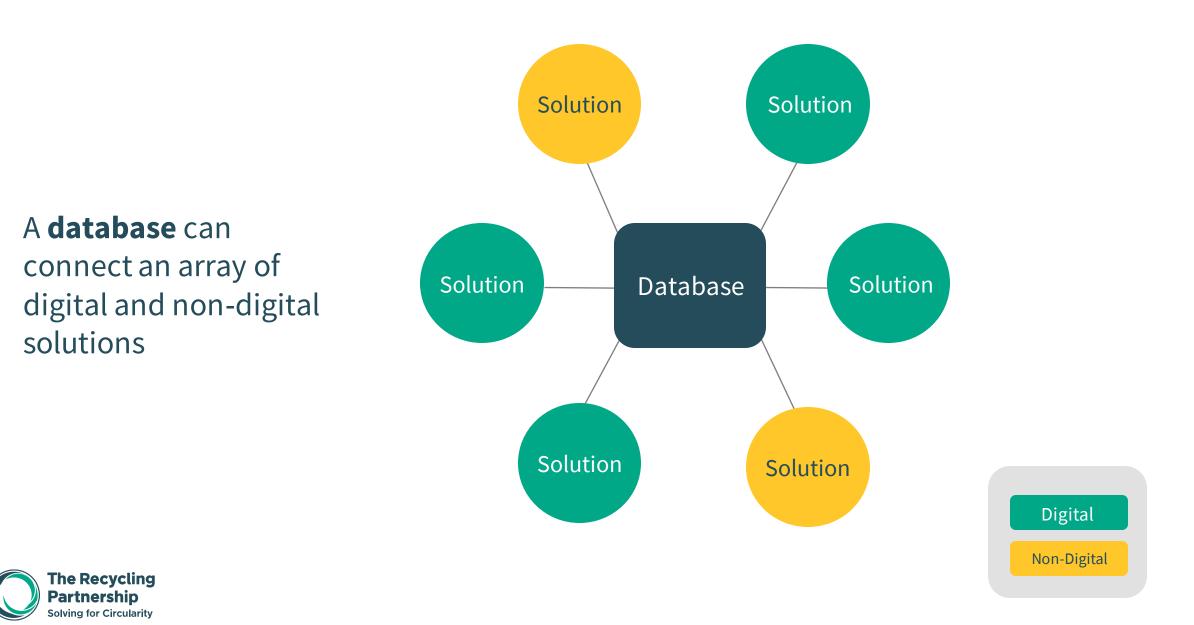
An ecosystem of solutions allows a comprehensive approach



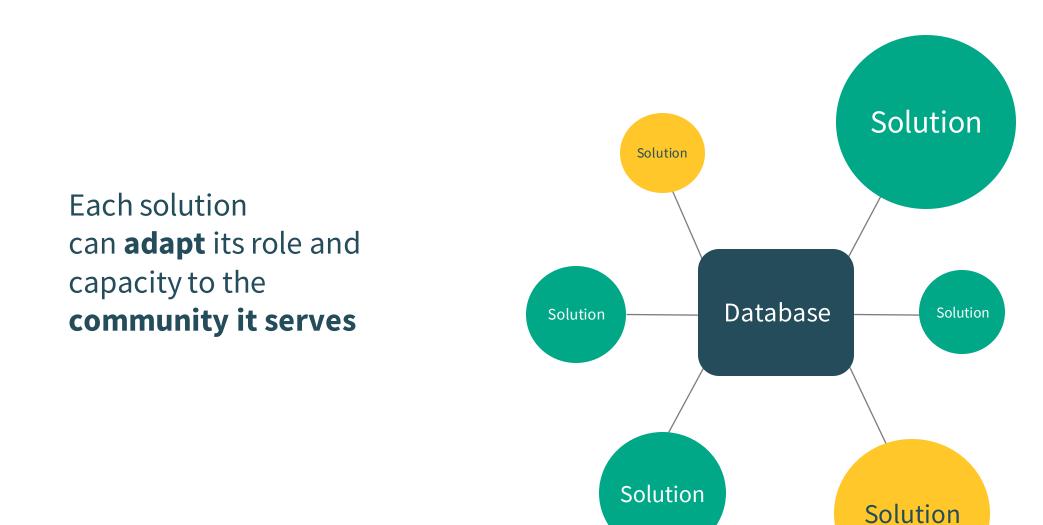
Target Population







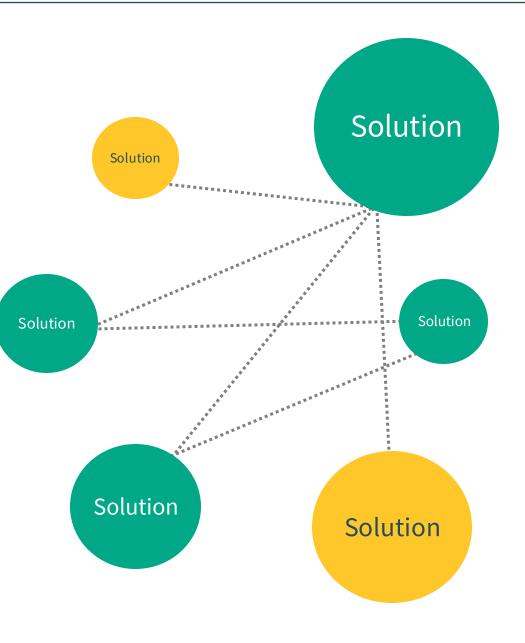








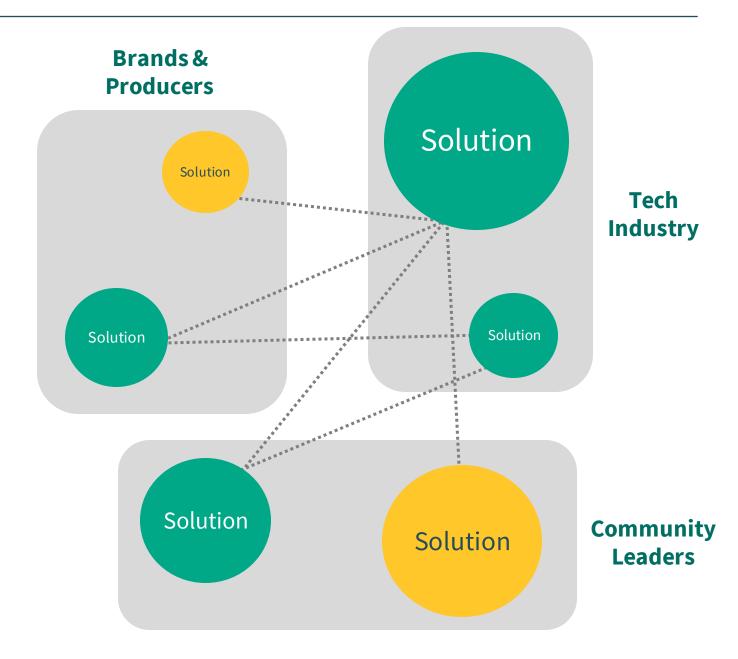
Solutions can **interconnect** with others, enhancing **overall functionality**





nuance

A **national database** has the potential to **unify** and serve as a collaborative platform for **shared innovation** and **sustainable progress**







Address the requirements of **younger and BIPOC** demographics through methods that successfully **reach** and **engage** them...

How will you leverage digital solutions and behavioral design to meet the challenge?



Improving **Systemwide** Outcomes **Through Data &** Trust



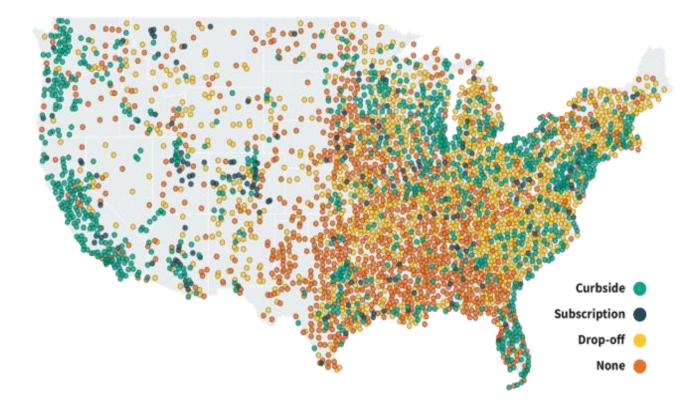


Imagine if every time you drove into a new city or county, the rules of the road changed...

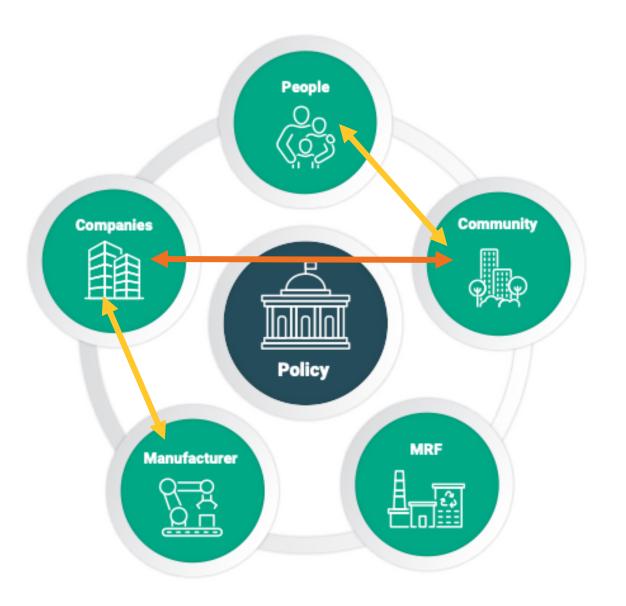
















Designed in collaboration with Yerecic Label.



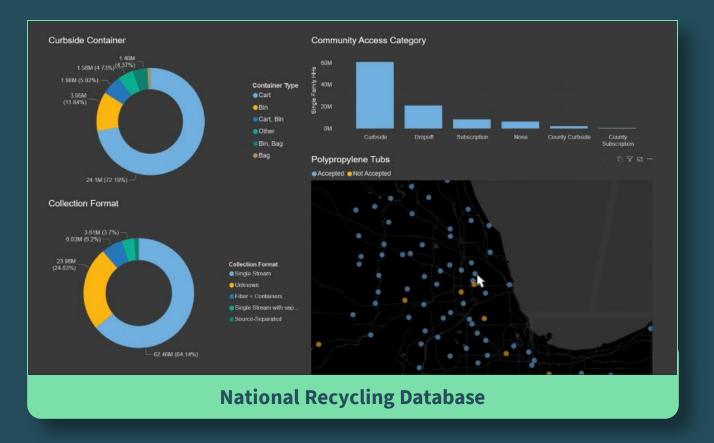
Scan the QR code for local recycling information



Resident-facing tools are powered by the

National Recycling Database

Providing accurate, local, dynamic, recycling data that connects the entire recycling system





The Recycling Program Solutions Hub is an open-access, free tool for recycling program managers to control the accuracy of critical recycling program data.

The **National Recycling Database** is the underlying structure for the Hub.

It becomes **more accurate and thorough** as recycling staff verify and update local data in the Hub.

community.recyclingpartnership.org



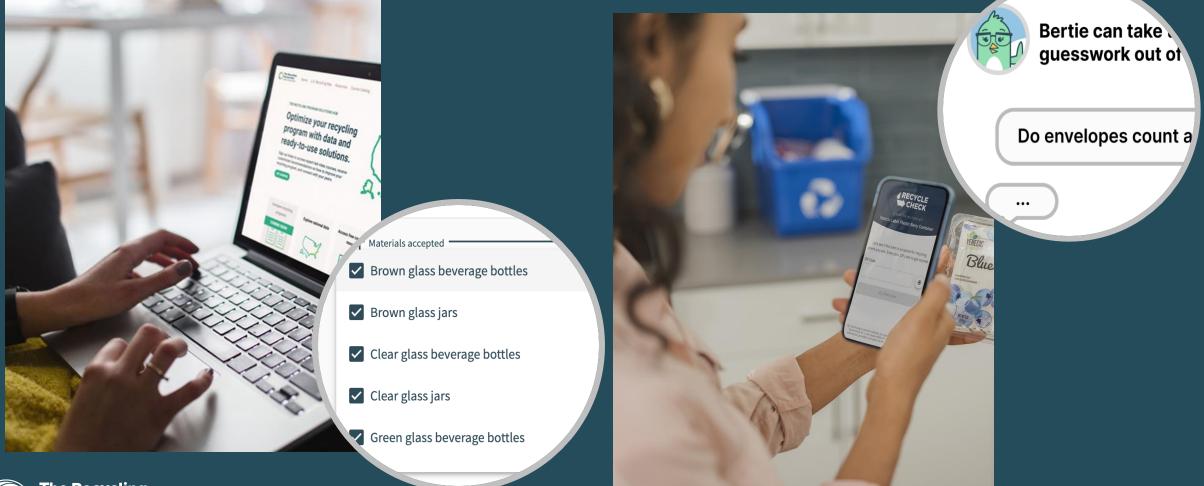
Key Features

- Interactive Map
- Custom Recommendations
- Learning Hub & Resources
- Peer-to-Peer Networking



Who knows what's recyclable? You do!

We need your knowledge to help ensure the information is accurate.



The Recycling Partnership Solving for Circularity **78%** Think a QR code would make recycling less confusing

- 74% Would scan a QR code to find out if a package can be recycled
- **73%** Said the QR code would **help them trust** it will be recycled into something else
- 73%

Would **feel better about a brand's commitment** to recycling with a QR code





All Stakeholders Contribute to the Success of Recycling





Consider how your solutions will support:



PEOPLE: to ensure they are supported and motivated to recycle mindfully



COMMUNITIES: tools are specific to and celebratory of local conditions



COMPANIES: can advance recyclability solutions at scale and adhere to policy requirements

Get in Touch:

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Hasaan Aleem

- Ikeenan@recyclingpartnership.org
- Recyclingpartnership.org

hassan@nuancebehavior.com

nuancebahavior.com



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

Unlocking Recycling's Potential: Day 2

February 22, 2024





Agenda

DAY 1

Welcome

Why Behavior Change Matters in this Moment?

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Levers of Behavior Change









Material Incentives



✓ Make it easy (or the alternative hard)

✓ Give rewards or penalties





Recycling is about to get easier!

iReciclar será mucho más fácil!



A free, in-home recycling basket and information on what's recyclable is on its way!

iUn contenedor de reciclaje gratuito, una calcomanía e información sobre lo que puede reciclar están en camino!



The Recycling Partnership

WARNING!

I ADVERTENCIA! THE FOLLOWING HAS BEEN FOUND IN YOUR BLUE RECYCLING CART Los biguientes articulos fueron encontrados en su Boto de Reciclaje Azul

- ____ Plastic Bags (Bolsas Publicas)
- Stymfoam (Exponse de Polaistireno
- Food or Liquid (Comidas o Islandes
- ____ Electronics (Electronicos)
- Housewares (Articulos para el Hoga
- Hazard or Chemical Weste
 (Residuos Químicos o Peligrose
- Yard Waste (Residuos de la Yar
- Other (Otros)

Please make sure only recyclable materials are placed in your blue cart. Or favor aseguinese que solo materiales reciclable sean depositados en su bote de reciclaje asió.

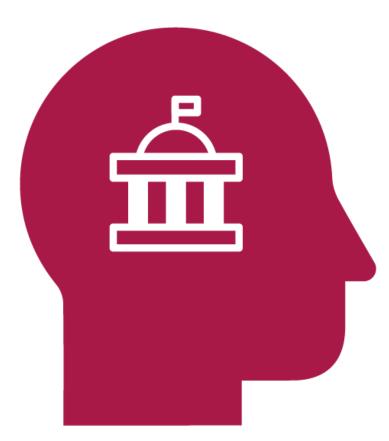
Failure to do so may result in the removal of your blue cart. Et failo en no bacerio puede resultar en que su tio de recipiaje atual puede ser removido.

For a complete list of what can and car't be recycled, call 311 or visit: and upb lists complete do to our debe o no deb process, fairer de tiener al 311 o visite.

www.chicagorecycles.org



Rules & Regulations (Policies & Mandates)



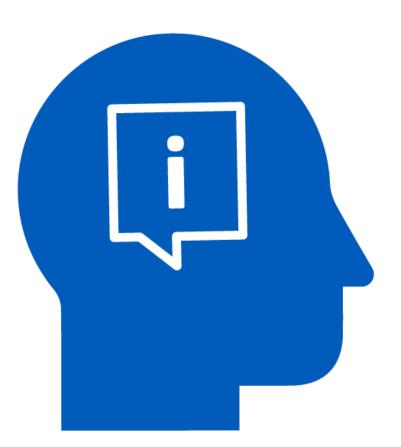
- ✓ Set standards
- ✓ Mandate behavior
- ✓ Prohibit behavior



	Pre-EPR	With EPR
British Columbia	50-57%	81%
Belgium	10%	89.8%
Spain	4.8%	80.7%
Netherlands	70%	82%
South Korea	64%	78%
Quebec	28%	64%
Portugal	38%	60.4%

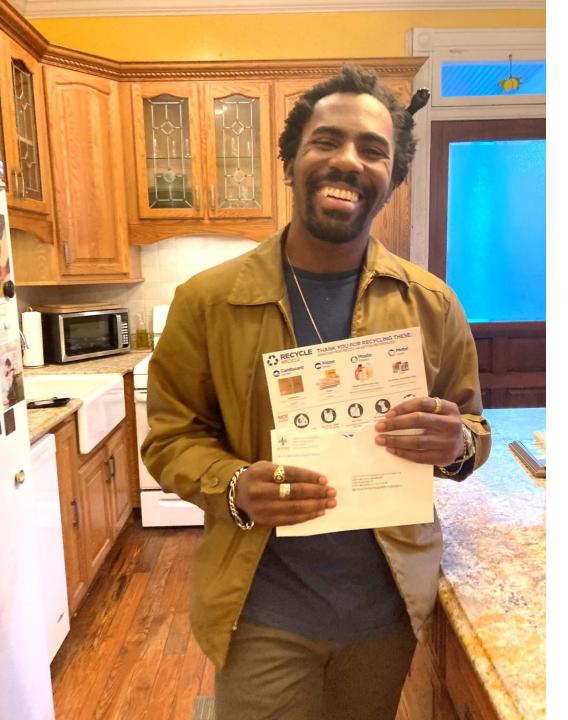


Information



- ✓ Provide step-by-step instructions
- ✓ Build awareness and understanding







Source: Ethnographic research conducted by **Point Forward** and **The Recycling Partnership**.

These levers tend not to work on their own.



- Financial incentives can backfire.
- Payments can crowd-out other motivators.
- Incentives can drain limited resources.
- Fines can be seen as just the 'cost' for behavior.



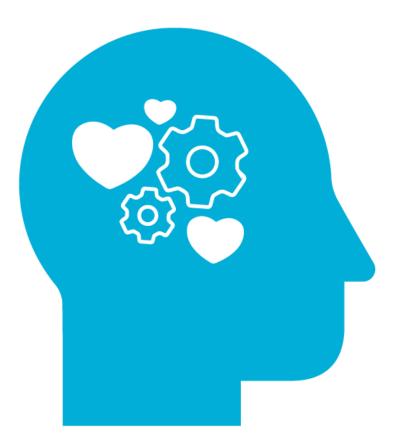
- Rules often need enforcement.
- Rules do not work if norms are misaligned.

•	

- Correcting an information-deficit rarely leads to lasting behavior change.
- Caring/knowing is not a pre-requisite to change.



Emotional Appeals



- ✓ Leverage emotions in specific contexts
- ✓ Personalize the message



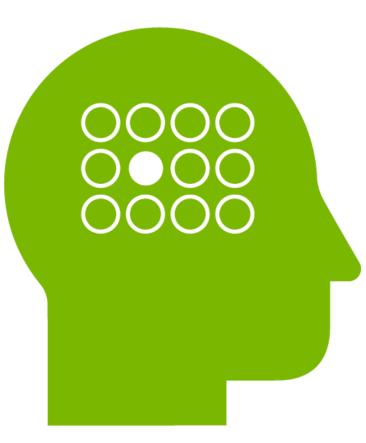
The Partnership has had success addressing confusion and frustration head on with an empathetic tone.

Solving for Circularity

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Social Influences



- ✓ Make engagement in the desired behavior observable
- ✓ Highlight others who are performing the target behavior
- ✓ Eliminate excuses for not engaging in the target behavior



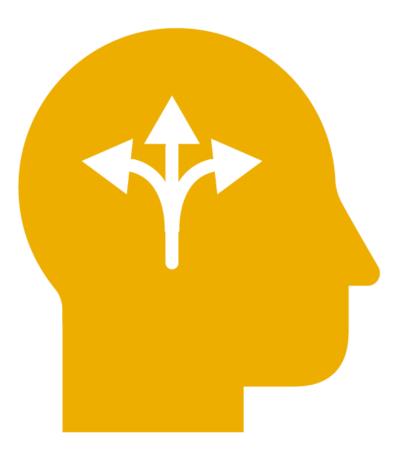








Choice Architecture



- ✓ Direct attention
- ✓ Simplify messages and decisions
- ✓ Use timely moments and prompts
- ✓ Facilitate planning and goal setting











Unlocking Recycling's Potential: Day 2

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Levers of Behavior Change – In Action

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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

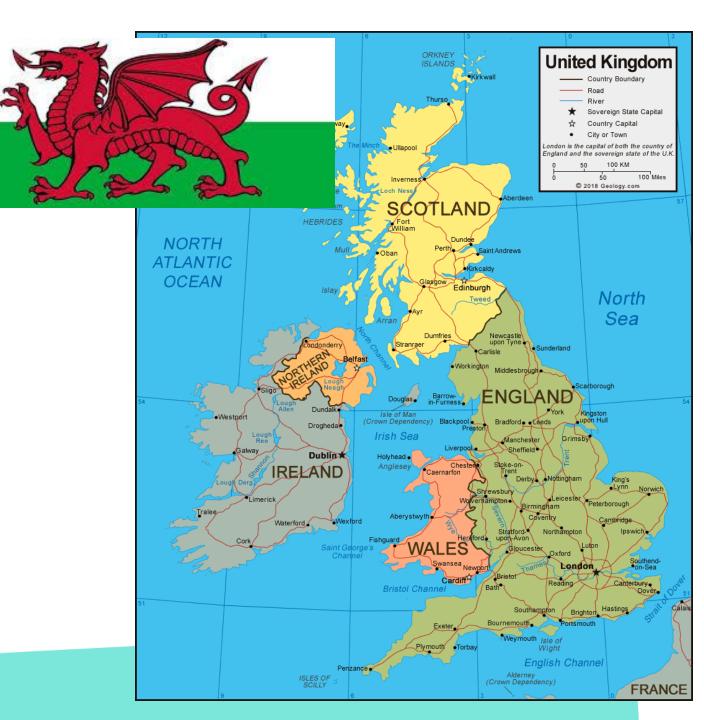
Our mission is to make the world a more sustainable place. We bring people together, we act on the facts, and we drive change

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



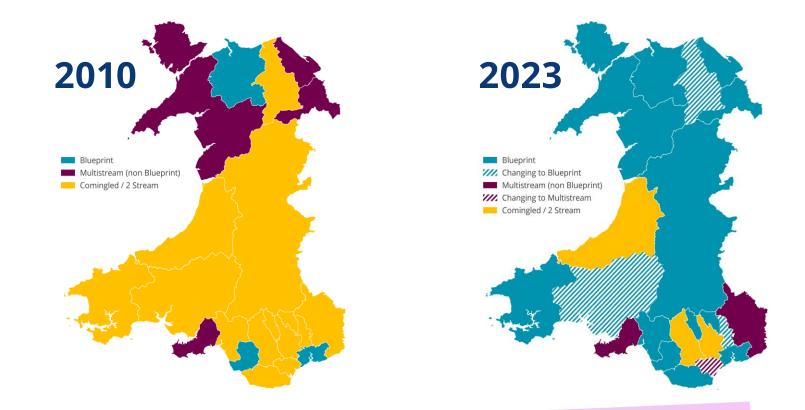
Two key policy levers

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

n

 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.



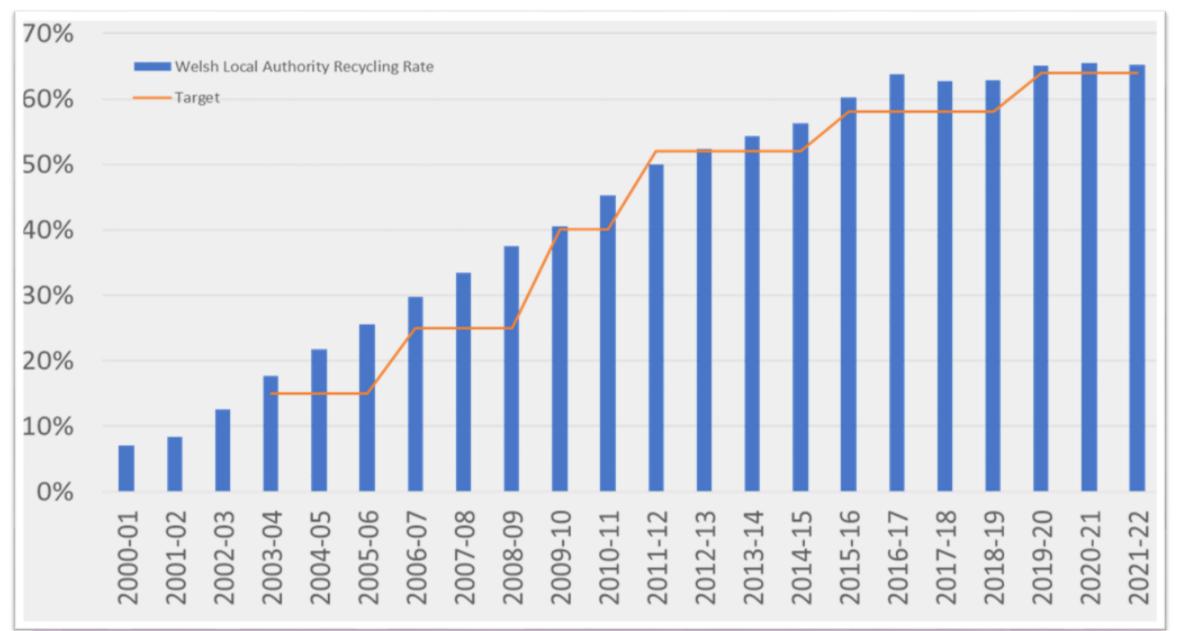


 Sustainable Lifestyle Segmentation



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

The results





Thank you





Bettina Gilbert bettina.gilbert@wrap.org.uk

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

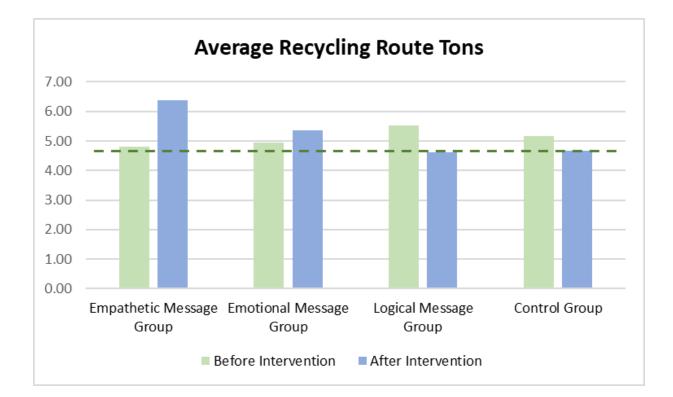
3 pilots testing motivational messaging delivered by cart tag and mail

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

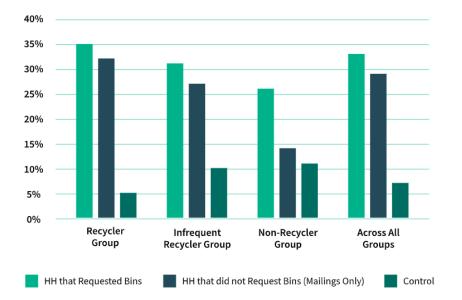
- Mailers significantly increased recycling participation
- The in-home bins contributed to a small increase in set out beyond the mailers only.

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





Get in Touch:

Michelle Metzler

mmetzler@recyclingpartnership.org

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S recyclingpartnership.org



Unlocking Recycling's Potential: Day 2

February 22, 2024





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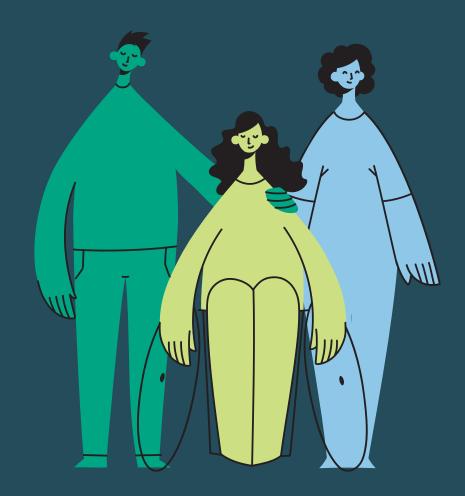
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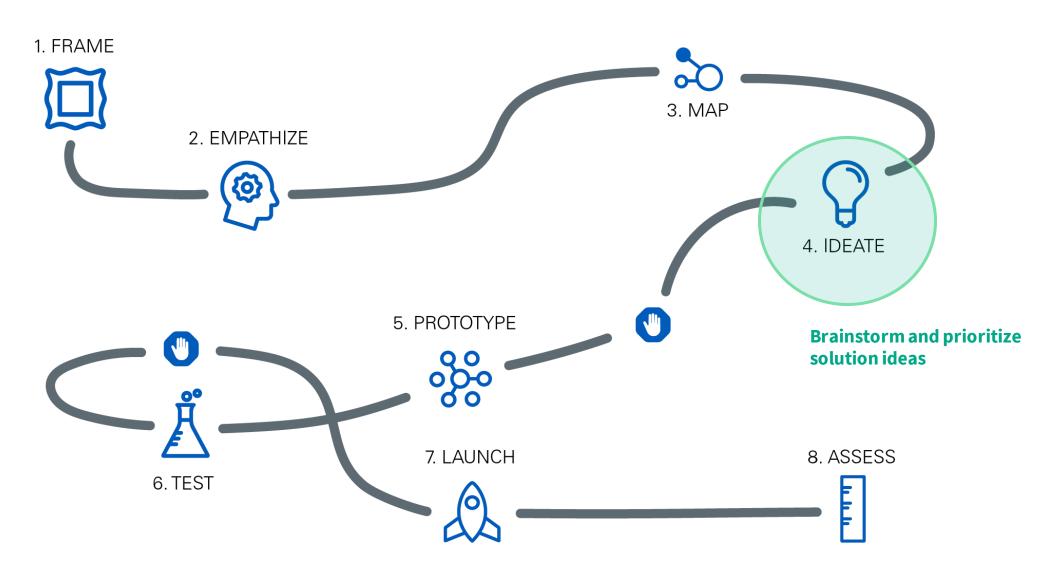


Ideating Solutions





The Behavior-Centered Design Journey





Ideate

How? Brainstorm solutions

Key Principles:

- Aim for quantity > quality of ideas
- Think creatively and 'outside of the box'

DEI considerations:

- Ideas support public interest and minimize harm
- Involve stakeholders and actors to increase transparency



Π

Activity: Ideate Ideas!







Take 3 minutes to write down ideas on your own. Put one idea per sticky note. Share ideas with your group.

Brainstorm more ideas together. Consider adding ideas that would increase equity in your case study.



Ⅲ

Prioritizing and Preparing Your Solution Pitch





Activity Part 1: Prioritize and Revise Ideas



Prioritize ideas using the impact and feasibility matrix. Select 1-2 ideas you want to feature. Talk with your group and table navigators about your ideas to strengthen them.



Activity Part 2: Prepare Your Pitch





Discuss how you could share your idea in a 2-minute pitch. How does it work? What does it look like? Who will receive it? What are the DEIB considerations? Write/draw your behavior, actor, hypothesis, and final solution idea on your solution board.

You can also add questions or suggestions for future research on sticky notes.



Solution Share & Pitch





Activity: Solution Share & Pitch





Finalize your pitch in your group for 5 minutes. Odd-numbered tables pitch while evennumbered tables explore and give feedback with sticky notes.



Even-numbered tables pitch while odd-numbered tables explore and give feedback with sticky notes.



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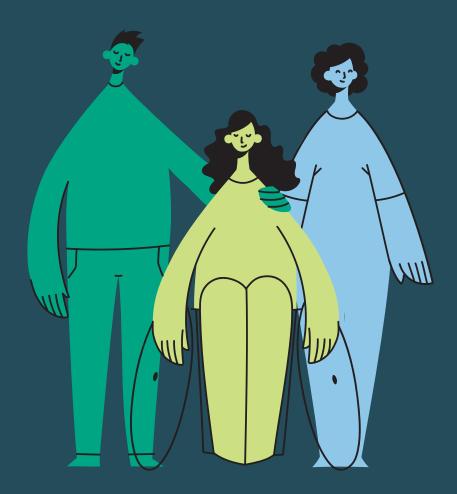
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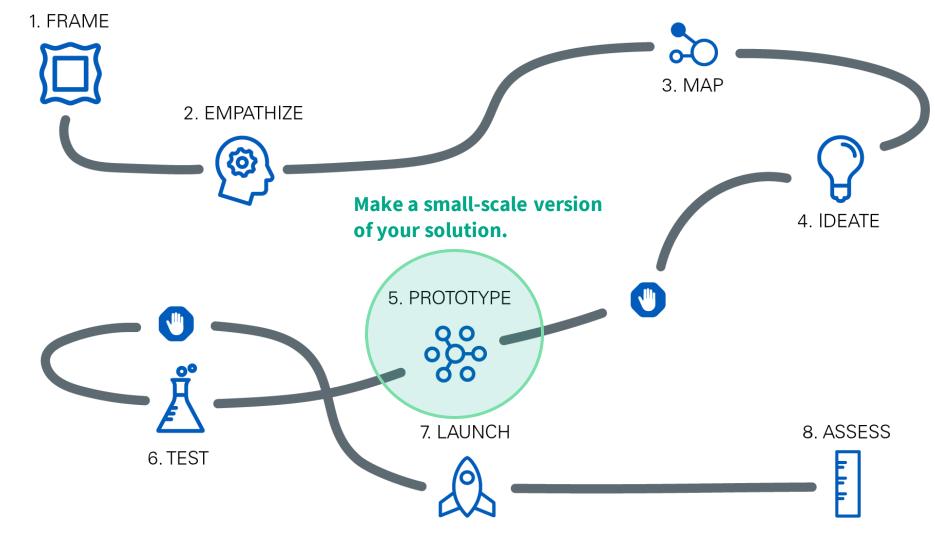


Prototype, Test, Launch & Assess





The Behavior-Centered Design Journey





Prototype

How? Make a small-scale version of your solution and prepare to share your idea.

Key Principle:

• Aim for a good draft, complete enough to be testable but still in a work in progress

DEI Considerations:

- Does the prototype incorporate the broader context?
- Does the prototype work for the many, not just the few?



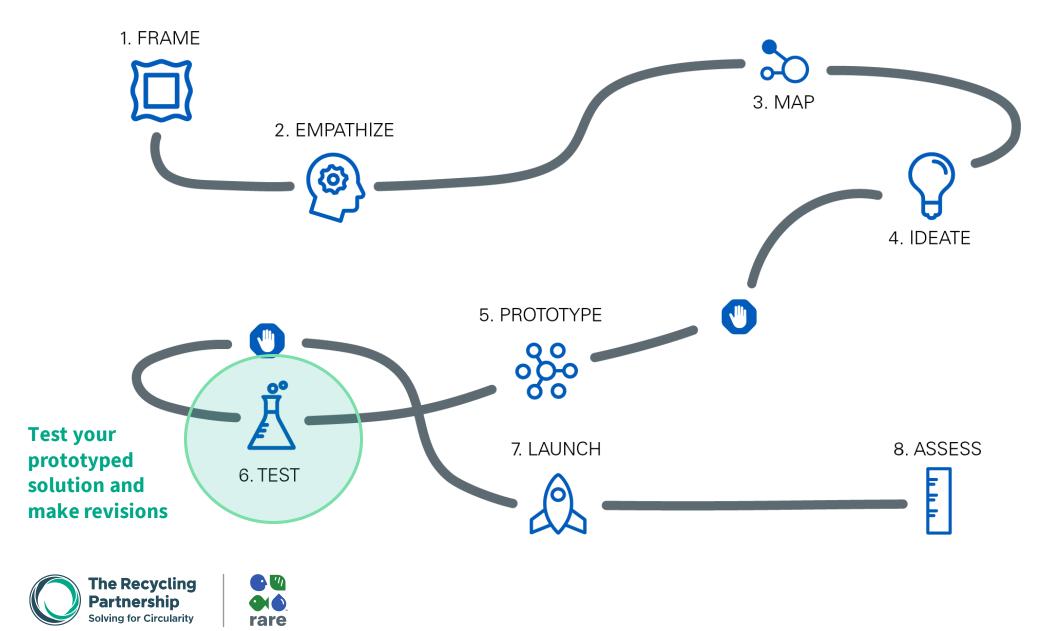
Examples of Prototypes

An experiential prototype could look like...

- A **storyboard** of key moments in time
- A **drawing** or set of drawings
- A short **play or scene** that shows what happens
- A small-scale **interactive space**



The Behavior-Centered Design Journey



Test

How? Present your solution idea to a focus group, run a simulation, do a mini-scale pilot, conduct interviews or surveys

Key Principles:

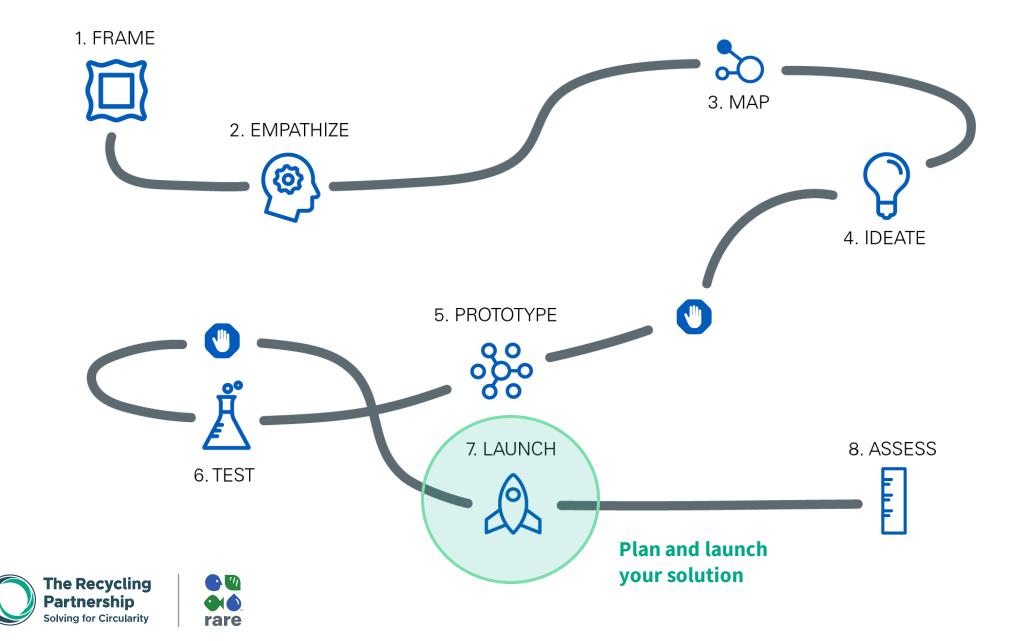
• Get feedback on your idea in a real-world setting

DEI Considerations:

- Think about representation in your test group
- Consider the impact or any potential harms of your test/pilot
- Consult local stakeholders on what's appropriate



The Behavior-Centered Design Journey



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Launch

How? Completing an assessment plan, completing a launch plan and budget, planning interventions at scale

Key Principles:

- Think of Assess while you plan for Launch
- Include lots of detail (what, where, when, who, etc.)!

DEI Considerations:

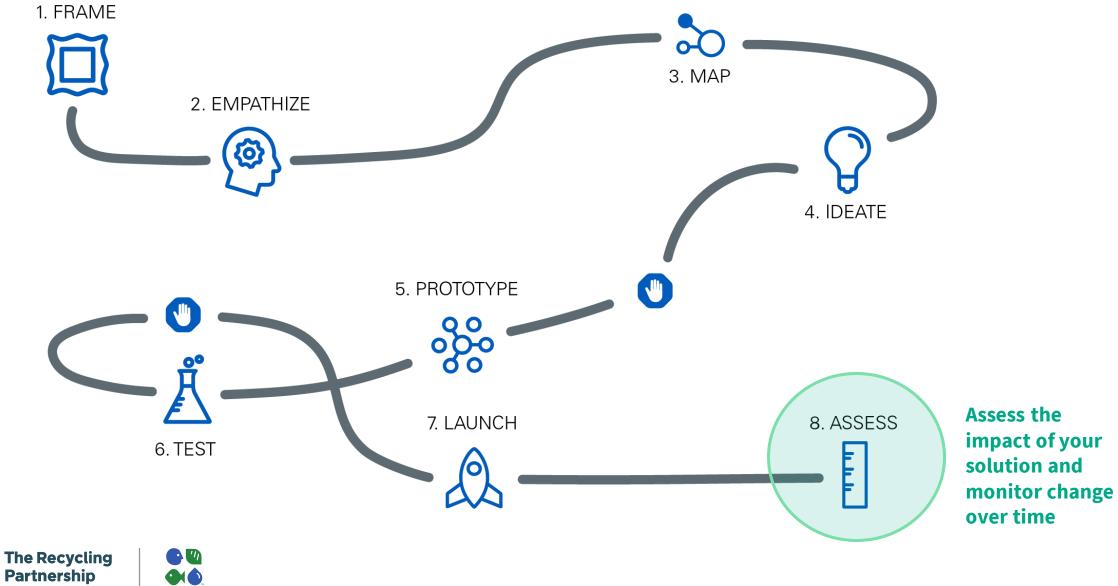
- Have local experts be involved in implementation
- If you are running an experiment, consider fair treatments



The Behavior-Centered Design Journey

Solving for Circularity

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Assess

What? Measure the impact of your solution and monitor change over time.

How? Conducting post-intervention surveys and interviews, running experiments, identifying indicators, reflecting on and sharing what you learned

Key Principles:

- Reflect on what worked and didn't work
- Look for observable change in behavior due to your solution

DEI Considerations:

- Report all outcomes with diverse actors
- Monitor for long term and unintended effects



Case study: Evaluating heavy-item pickup communications

Anna Keleher, Behavioral Insights Team With thanks to Keep Indianapolis Beautiful

THE BEHAVIORAL INSIGHTS TEAM

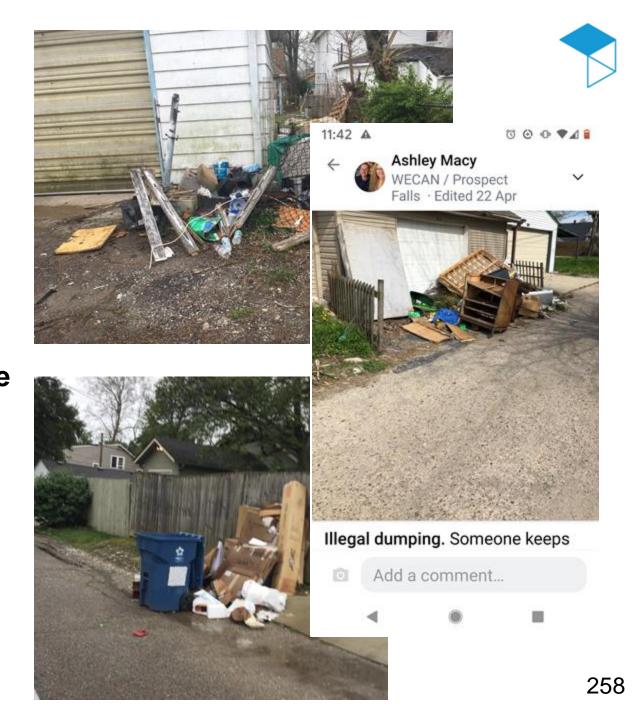


Outline

- Context & research question
- Evaluation design
 - Selecting a methodology
 - Finding & making data
 - Analysis
- Results & follow-up
- Takeaways

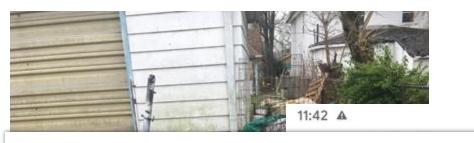
Context

BIT worked with Keep Indianapolis
 Beautiful (KIB) and the Department of
 Public Works in Indianapolis to address
 dumping behaviors in Indianapolis—
 specifically by increasing uptake of the
 free heavy item pick up service.



Context

- BIT worked with Keep Indianapolis
 Beautiful (KIB) and the Department of
 Public Works in Indianapolis to address
 dumping behaviors in Indianapolis–
 specifically by increasing uptake of the
 free heavy item pick up service.
- We conducted on-the-ground qualitative research with residents and applied our knowledge of behavioral science to design a solution.





Potential Barriers

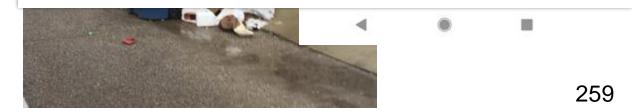
Potential Barrier: Present Bias

Present bias describes the tendency for people to overweight the immediate costs and benefits of an action compared to future consequences. If costs are in the present and benefits are in the future, people will be less likely to act.¹ The present "cost" of holding trash or arranging a large-item pick-up may outweigh the longer-term benefits of keeping the environment clean.

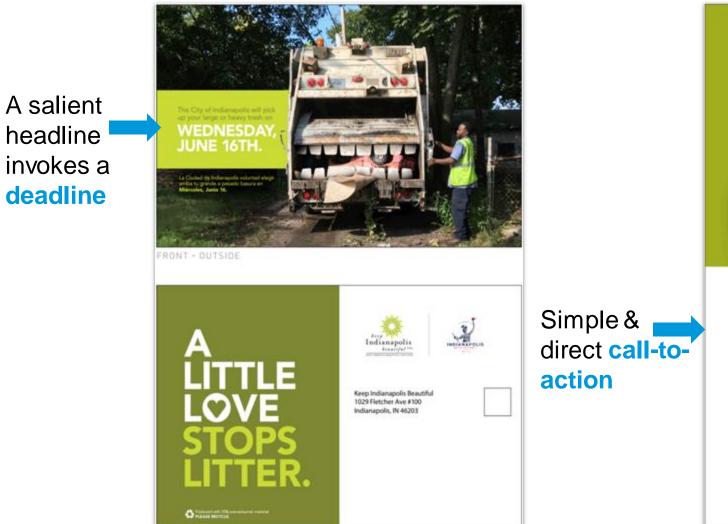
Indianapolis Context: Present bias can help explain the presence of litter along Indianapolis roadways, at bus stops, and in parking lots. The long-term consequences of littering in Indianapolis, such as the monetary costs of cleaning, the environmental impacts (despite the city's distance from the ocean, the White River can carry trash downstream), and decreased quality of life, are significant.² However, the present costs can seem high as well -- holding on to garbage is unpleasant and the "friction costs" section below discusses how proper waste disposal can require outsized effort in Indianapolis.

Promising strategies:

Reduce the immediate discomfort (i.e., "costs") of holding on to trash. One way to
accomplish this is through encouraging the use of redesigned packaging or carrying



Solution: A mailer to inform residents about their free heavy trash pick-up service



Your heavy item pick-up day is the **3rd Wednesday** of every month. APPLIANCES VARD WASTE MATTRESSES FURNITURE Set out 1-2 approved items by 7a.m. and we'll take care of the rest. ndianapoli K-UP 2 Unfortunately, we are not able to pick up: Retra bags of household waste O Construction materials he 3rd Wednesday of the month S Refrigerators or other appliances with Freon S Toxic or hazardous materials See a full list of approved items for pick up at indy.gov/activity/trash-pickup Scan with your Visit bit ly/3gs2N4F for more infor Keep this handy magnet for heavy trash day reminders.

Magnet as a reminder of upcoming pick-up days



Selecting an evaluation methodology

Our question: Does sending an informational postcard to remind and inform recipients increase usage of the heavy item pickup service?



Selecting an evaluation methodology

Our question: Does sending an informational postcard to remind and inform recipients increase usage of the heavy item pickup service?

- Do I need to measure impact? → Impact evaluation (e.g., field trial or online RCT, quasi-experimental methods, diff-in-diff, pre/post designs)
- Do I want to understand effectiveness or feasibility? → Formative evaluation (e.g., user feedback, interviews, prototyping, observation)
- Do I want to know if my program was implemented as intended?→ Process evaluation (e.g., surveys, observations, data collection and monitoring of key outputs)



Selecting an evaluation methodology

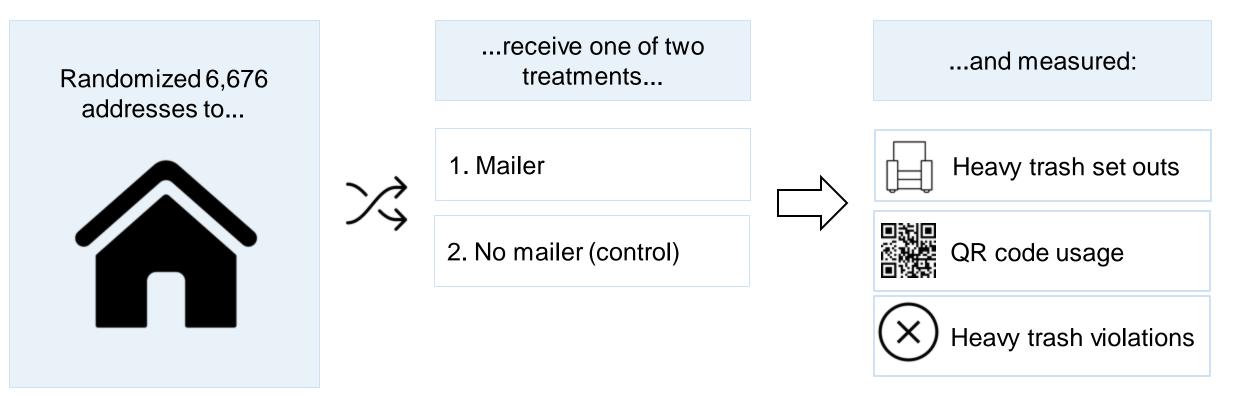
Our question: Does sending an informational postcard to remind and inform recipients increase usage of the heavy item pickup service?

- **Do I need to measure impact?** → **Impact evaluation** (e.g., field trial or online RCT, quasi-experimental methods, diff-in-diff, pre/post designs)
- Do I want to understand effectiveness or feasibility? → Formative evaluation (e.g., user feedback, interviews, prototyping, observation)
- Do I want to know if my program was implemented as intended?→ Process evaluation (e.g., surveys, observations, data collection and monitoring of key outputs)



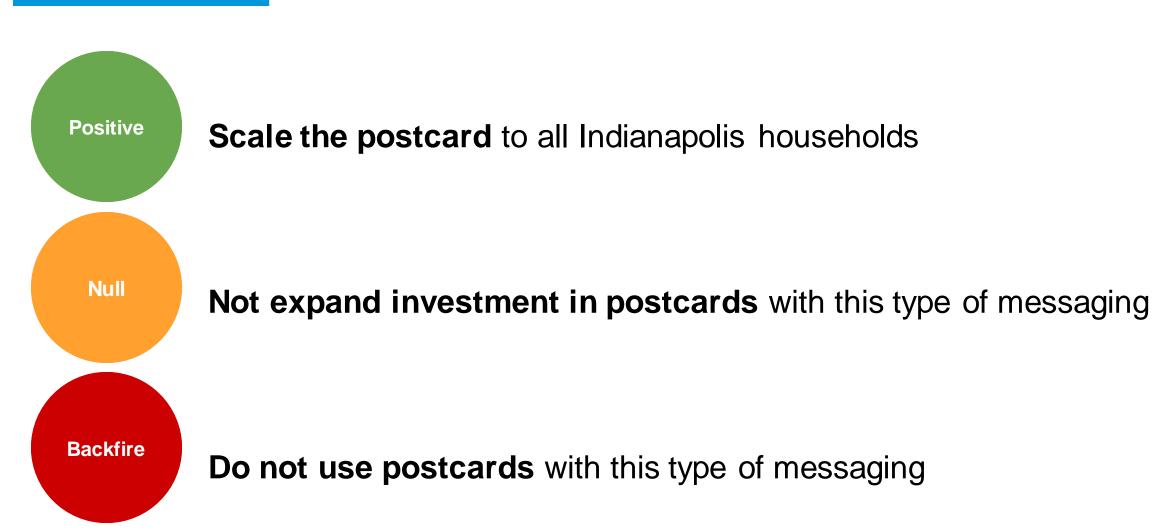
We ran a RCT to evaluate the impact of the mailers

In May 2021, KIB mailed the postcards to the selected addresses. Volunteers counted the presence of heavy trash at each selected address at two points after sending (June 16 & July 21).





An RCT provided actionable results

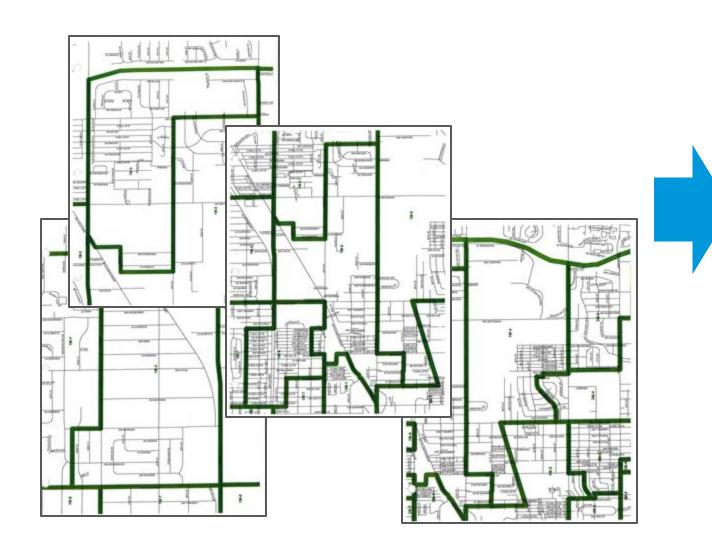


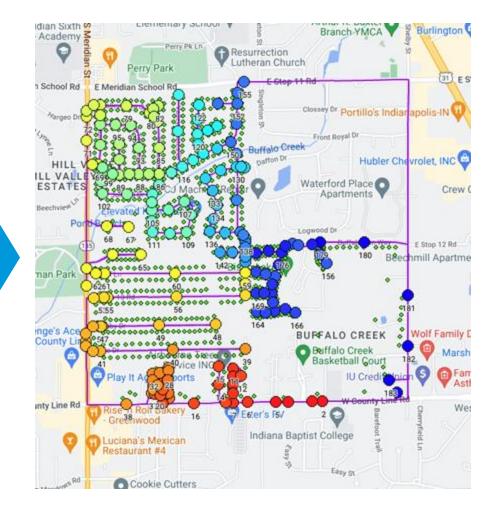


J1	8 *	1 × 4	fx			
1	A	В	с	D	E	F
1	First Name	Last Name	Street Address	City	State	Zip Code
2	James	Butt	6649 N Blue Gum St	New Orleans	LA	70116
3	Josephine	Darakjy	4 B Blue Ridge Blvd	Brighton	MI	48116
4	Art	Venere	8 W Cerritos Ave #5	Bridgeport	NJ	8014
5	Lenna	Paprocki	639 Main St	Anchorage	AK	99501
6	Donette	Foller	34 Center St	Hamilton	OH	45011
7	Simona	Morasca	3 Mcauley Dr	Ashland	OH	44805
8	Mitsue	Tollner	7 Eads St	Chicago	IL.	60632
9	Leota	Dilliard	7 W Jackson Blvd	San Jose	CA	95111
10	Sage	Wieser	5 Boston Ave #88	Sioux Falls	SD	57105
11	Kris	Marrier	228 Runamuck PI #2	Baltimore	MD	21224
12	Minna	Amigon	2371 Jerrold Ave	Kulpsville	PA	19443
13	Abel	Maclead	37275 St Rt 17m M	Middle Island	NY	11953
14	Kiley	Caldarera	25 E 75th St #69	Los Angeles	CA	90034
15	Graciela	Ruta	98 Connecticut Ave	Chagrin Falls	OH	44023
16	Cammy	Albares	56 E Morehead St	Laredo	TX	78045
17	Mattie	Poquette	73 State Road 434 E	Phoenix	AZ	85013
18	Meaghan	Garufi	69734 E Carrillo St	Mc Minnville	TN	37110
19	Gladys	Rim	322 New Horizon Bl	Milwaukee	WI	53207
20	Yuki	Whobrey	1 State Route 27	Taylor	MI	48180
21	Eletcher	Flosi	394 Manchester Blv	Rockford	IL .	61109













Awesome volunteers!

- Willing to wake up early
- Willing to drive behind garbage trucks
- Blinded



ht_june16	ht_july21	violatio	violatio	violatio	route	[primary_n	[street_pre	[street_name]	[street_	[street_post	Apt	Notes
					3W-1	8546		Bison Woods	Ct			
					3W-1	8548		Bison Woods	Ct			
					3W-1	50		Brookacre	Ln			
1					3W-1	110		Brookacre	Ln			
					3W-1	130		Brookacre	Ln			
1					3W-1	131		Brookacre	Ln			
					3W-1	504		Buffalo Ridge	Cir			
					3W-1	505		Buffalo Ridge	Ct			
					3W-1	506		Buffalo Ridge	Ct			
					3W-1	512		Buffalo Ridge	Cir			
					3W-1	513		Buffalo Ridge	Cir			
					3W-1	514		Buffalo Ridge	Ct			
					3W-1	519		Buffalo Ridge	Cir			
					3W-1	520		Buffalo Ridge	Cir			
					3W-1	522		Buffalo Ridge	Ct			
					3W-1	523		Buffalo Ridge	Ct			unbundled trash (pic)
					3W-1	527		Buffalo Ridge	Cir			
					3W-1	528		Buffalo Ridge	Cir			
					3W-1	530		Buffalo Ridge	Ct			
1					3W-1	531		Buffalo Ridge	Ct			BBQ
					3W-1	535		Buffalo Ridge	Cir			



Analysis

We will use a logistic regression:

 $\underline{outcome}_i \sim bernoulli(p_i); logit(p_i) = \alpha + \beta_1 Treatment i + \beta_2 MultiUnit + \beta_3 Route$

where the function logit is defined as the log-odds ratio: $logit(p) = log(\frac{p}{1-p})$

and where *i* represents the individual, *p* represents the binary outcome of interest (heavy trash set out or not), *Treatment* represents an indicator variable equal to 1 if the individual was randomly assigned to receive the mailer and 0 if they were assigned to control, *MultiUnit* represents whether or not the address reflects one or multiple (2-4) units, and *Route* represents the 1 of 8 trash routes being followed for data collection. We will conduct an Intent-To-Treat (ITT) analysis with heteroskedasticity-robust standard errors.

Our primary coefficients of interest is $\beta 1$ which represents the average causal effect

of being assigned to our treatments. We are testing the hypothesis that the average difference between the treatment and control group is statistically significantly different than zero.



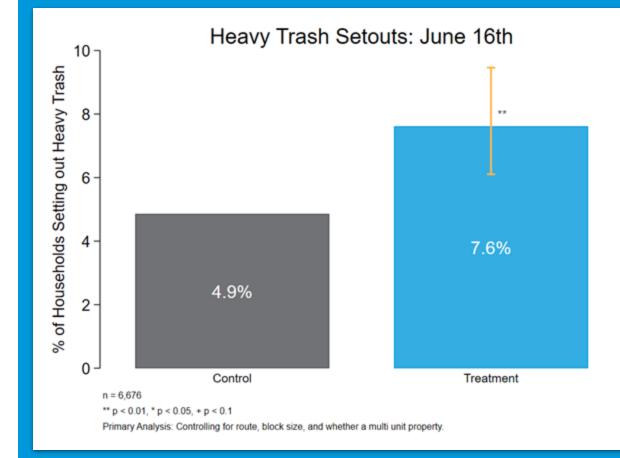
Analysis



The mailers had an immediate, large, impact on proper disposal

On the first heavy trash collection day after the mailing, households who received the mailer were **55.1% more likely to properly set out trash for collection**.

- This equals ~180 more set outs from households that received the mailer. These results were statistically significant.
- If we sent mailers to all eligible households on DPW heavy trash routes (~120,000), we would expect to have seen **3,240 additional trash items set out** in the first month.







Testing a more "scalable" mailer

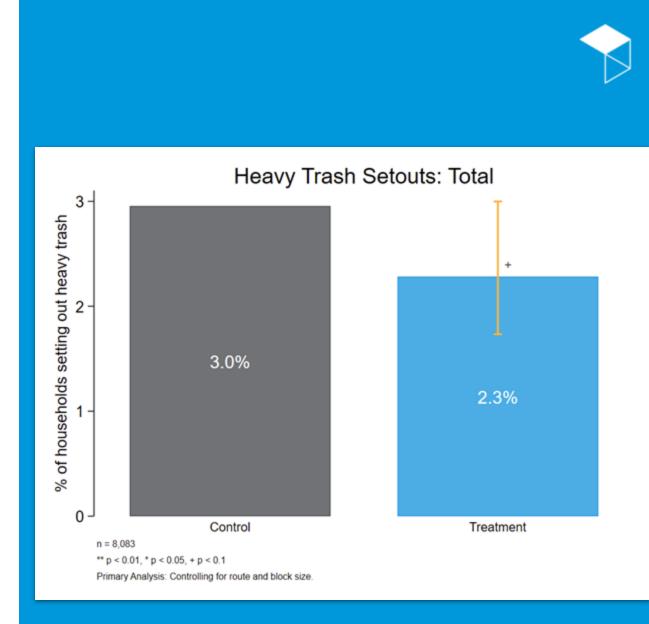
We tested the impact of a cheaper and low-effort design. The goal was to **understand whether the more tailored and expensive design was worth the cost to scale.**

- Smaller mailer
- No magnet
- Asked households to use the QR code/link to look up their own heavy trash service information online.

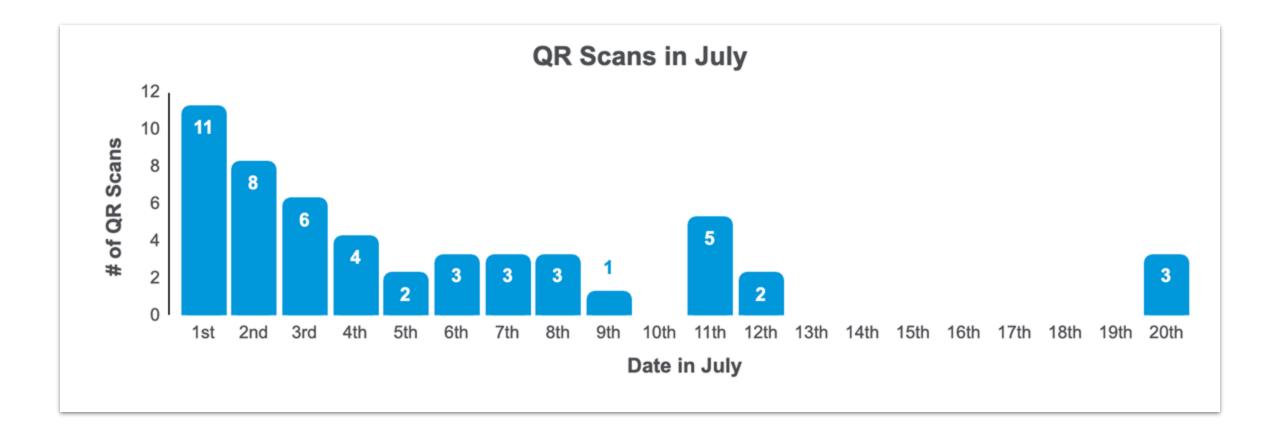


The "scalable" mailer failed to generate the same effect.

 Overall, there were 26 *fewer* set outs from households that received the mailer across our data collection dates on July 13 and 20th.



QR code engagement suggested that postcard personalization was important







Takeaways for evaluating waste programs

- Let your research question guide the evaluation approach
- Evaluation is a continuous process
- You can do it!
 - Even if your data is limited
 - Even if you aren't an expert (ask me about offthe-shelf resources!)

Assessing Engagement

Asami Tanimoto Senior Business Systems & Analytics Manager

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.



Where do I start? There are many ways to measure



Capture Rate

Set C

Set Out Rate



Participation Rate



Thoughts, Attitudes, Beliefs

Recovery Rate

Co

Contamination Rate

Composition

Subscription Rate





What is your goal? What question do you want to answer?

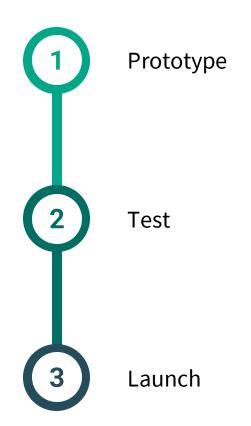
Increase Recycling Tonnage	Increase Recycling Participation	Increase Recycling Capture	Improve Confidence
 Collected weight Households served to normalize data (pound/household/year) Recycling vs. waste 	 Set out data for each address over 4 weeks Manual audit (FOTS) or cart tip data (RFID) 	 Composition of recycling & waste streams applied to collected tonnage per households served Generation, composition, capture, contamination 	 Recycling Confidence Index Survey of 10 factors to gauge people's confidence in their recycling habits & in their recycling program
Example: Reynoldsburg, OH	Example: Cincinnati, OH	Example: Folsom, CA	Example: Folsom, CA



Who? What? When? How?







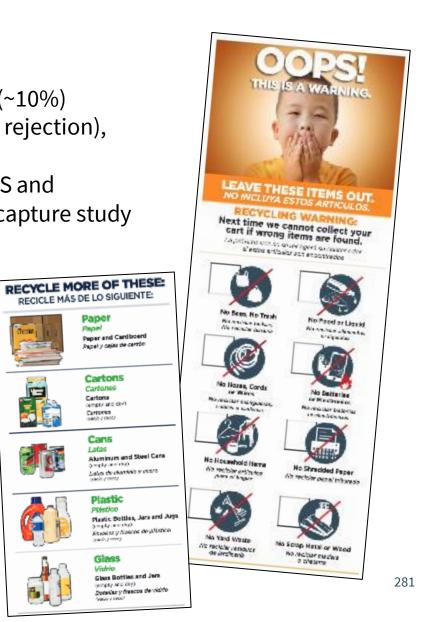


Large Southern City Example

- **Goal:** Improve quality of recyclables collected in 48 routes of the city (~10%)
- **Intervention:** Yes/No info via mailer, customizable cart tag (warning, rejection), social media
- Measurement: Set out rate, participation rate, tagging rate from FOTS and ٠ generation rate, composition, contamination, and capture rate from capture study







RECICLE MÁS DE LO SIGUIENTE:

-

Paper

Paper and Cardboard

Papel y calas de cartón

Cartons

(empty and dry)

Cartones

Cartona

Caritores people mos

Cans

Semply and digit

Plastic

Pléstico

march of states

Glass

Vielrie Glass Bottles and Jans

(emply and dig)

empty and day)

Aluminum and Steel Cara

Lates the electricity everys

Latas

Papel

Large Southern City Example - Results

- Data from Feet on the Street Tracking
 - Weekly <u>set out rate</u> hovered between 34% and 42%
 - 31% of households never set out over 4 weeks (69% participating)
 - <u>Tagging rate</u> decreased 28% over 4 weeks



- Capture study collected paired garbage and recycling cart contents from 144 households chosen from 12 routes before and after intervention
 - Average <u>contamination rate</u> decreased 41%
 - Sampled households with bagged recyclables in their recycling cart decreased 2% and weight of bagged recyclables decreased 23%
 - Sampled households with bagged garbage in their recycling cart decreased 27% and weight of bagged garbage in recycling decreased 50%
 - Number of households with less than 10% contamination almost doubled
 - Average participating household <u>capture rate</u> increased 12%
 - 22% more households captured more than half of their recyclables in the recycling cart
 - Almost every material type's capture increased but most metal, glass, and plastic containers are still behind average participant capture rates and can be improved





What question do you want to answer? What metrics are relevant?

Determine details of measurement: Who? What? When? How?

Conduct measurement before and after intervention

Adjust intervention based on results







Get in Touch:

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- S recyclingpartnership.org



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

Unlocking Recycling's Potential: Day 2

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

Ideate, Prioritize & Refine Solutions

Prototype, Test, Launch, Assess

Equity - What's next? And Closing Remarks



Equity: What's Next?

<u>Host</u>: Kevin Goolsby, The Recycling Partnership

Panel:

Jessica Levine, The Recycling Partnership Freddy Coronado, SF Environment Dept.





Kevin: What drives your passion for this work and what personal connection or motivation inspires you in these efforts?

Jessica: I joined the organization in 2018 as the youngest at the time and the first person of color and I asked a lot of questions. I told you yesterday that I'd be small but mighty and use my voice to enact some type of change. And so that's what I started to do. I founded a platform called the Recycling Inclusion Fund that allocates resources to support BIPOC communities and populations in research to understand the access and participation gaps that hinder BIPOC populations from being able to actively participate in their local recycling programs. Looking at where I started and how I've been able to learn, grow, and use my voice to drive change in this industry, even if it's a small and incremental way, I feel like my passion fuels that because I'm able to really be a part of you all being in the room right now.





Kevin: What drives your passion for this work and what personal connection or motivation inspires you in these efforts?

Freddy: I have been doing multi-family residential work for almost a decade. Believe it or not, this is my 10th year doing this work in the sector. It is super difficult work, but if we're trying to get diversity and inclusion, we have to work with the sector, especially our affordable housing sites properties. I have a background in geography, and one of the best classes that I took was called the Geography of Ethnic Communities. And in this course, we learned about what are the different demographics that make up an ethnic community, like cultural traits. And I have taken this to work and applied it. As a child, I did move a lot. I noticed how much the waste management systems of where I live differed. My lived experience has resulted in me wanting to work in zero waste, especially interacting with residents.





Kevin: What common hurdles do you face when empathizing and communicating with diverse communities?

Freddy: My biggest advice, especially if your city is very diverse, is to learn the geography of the communities that you're trying to serve. Learn what you're trying to do, the culture. What are the needs of your residents? I think it's really important to show up for a community as much as you can, before you start enacting a program that's going to result in a lot of infrastructure change.

Jessica: It's so important for you to be visible, to get to know the communities that you're engaging with, before you make assumptions on what they may need or what they may want, because it could be a complete miss!





Kevin: What other strategies are there to promote inclusivity and equity? What are some practical tips and strategies that people can take away?

Jessica: Don't think you have to start from scratch! Find organizations that can support you with resources like research, toolkits, customizable templates. The Recycling Partnership, and many other organizations, have invested the dollars into identifying those insights so that you have a more informed approach to how you are reaching and engaging with your diverse communities.

Freddy: Focus on Multifamily. Connect with your government agency/office in charge of affordable housing. Create technical support throughout the system, from beginning to end, for all actors, to support change. Create tools & resources to support, rather than putting the work on to others. Find public domain resources & modify. Seek out & take advantage of EPA grants for environmental justice. There's a lot of money right now!





Jessica: A Question to the Audience - Do any of you have examples of how you've been able to amplify your programs with the support of community -led organizations or businesses?

City of San Jose:

Partnered with CBO's who work with English language learners in the community to co-create materials in different languages to reduce recycling contamination. Review materials, practice google searches and check results for accuracy in different languages.

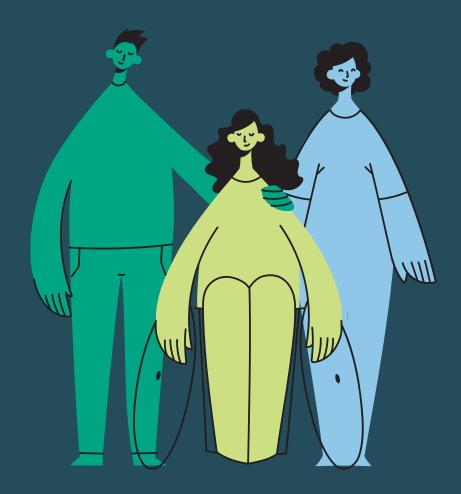
Stop Waste, Alameda Co.:

How to reach new audiences with our messages? Approach = RFP for Social Media Influencers to produce content for food waste reduction. The RFP resulted in a contract with a chef community that supports job creation in local community.





Closing and Next Steps





The Recycling Partnership is proud to partner with the following organizations and speakers to make this workshop possible.

Hosting Partners







And thanks to YOU the community programs, companies, and non-profits (etc.) for joining us here and for being part of our programming!





CRRA Mission

Provide CRRA members with resources to advance local, regional and statewide waste reduction efforts which result in critical environmental and climate protection outcomes.









Get in Touch:

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Director of Policy Implementation CRRA Board Member, Technical Council Liaison



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

Behavior Change for the Environment Starts Here





behavior.rare.org



Thank You!



