Unlocking Recycling's Potential: Framing, Empathizing, Mapping

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

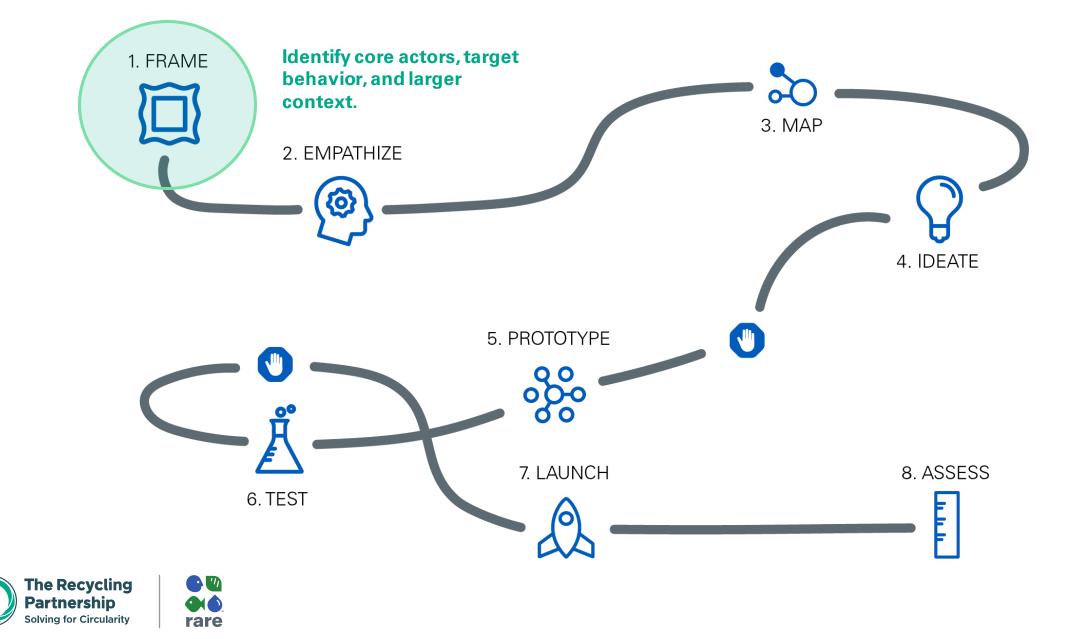
Equity - What's next?



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:

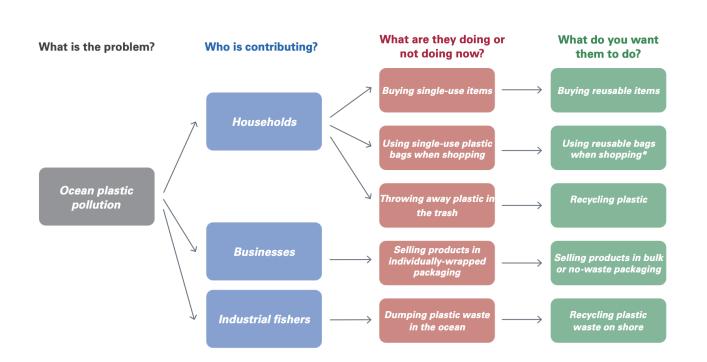
- It's important to identify the 'who' and 'what' of behavior change
- Behaviors operate within larger systems
- Beliefs, attitudes, intentions ≠ behaviors

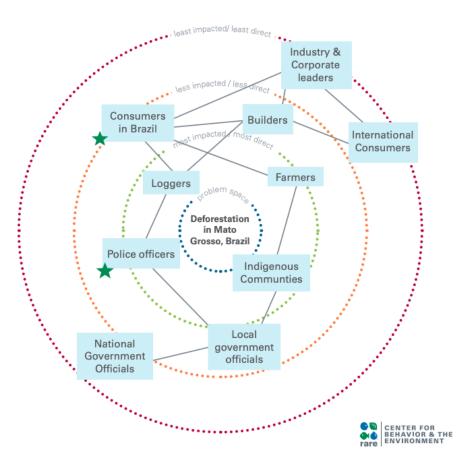
DEI Considerations:

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



Framing the Challenge Tools



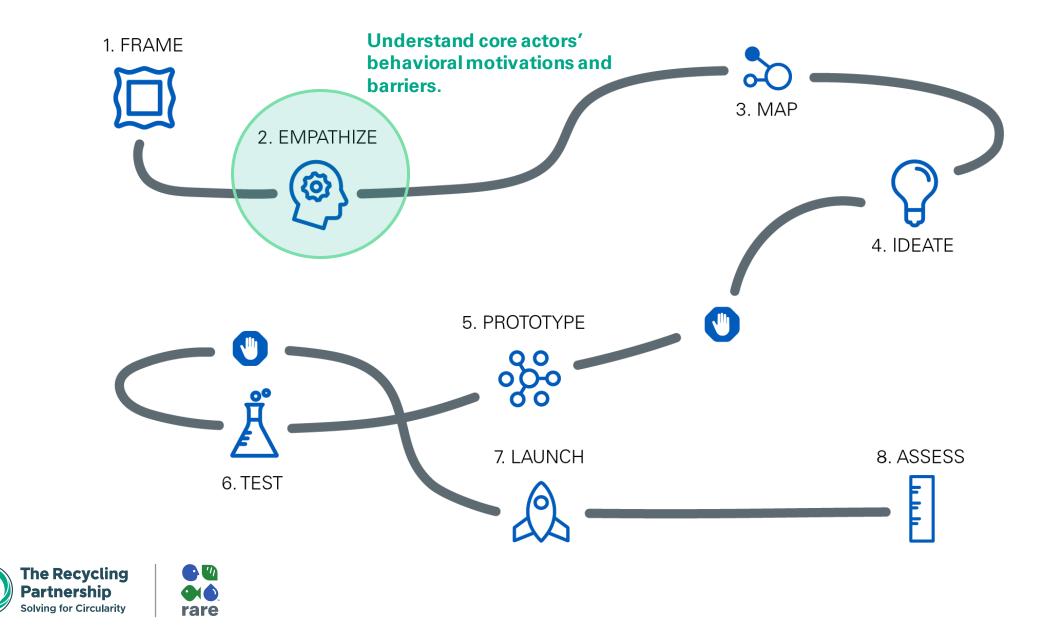




Empathizing with Our Communities



The Behavior-Centered Design Journey



Empathize

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

Key Principles:

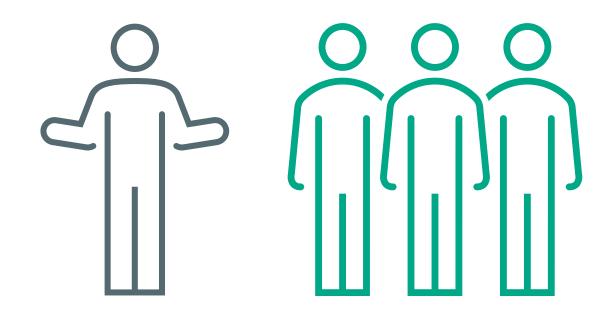
- Empathizing means understanding people in and on their own terms
- Recognizing your biases and assumptions can help you be more curious and open minded

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

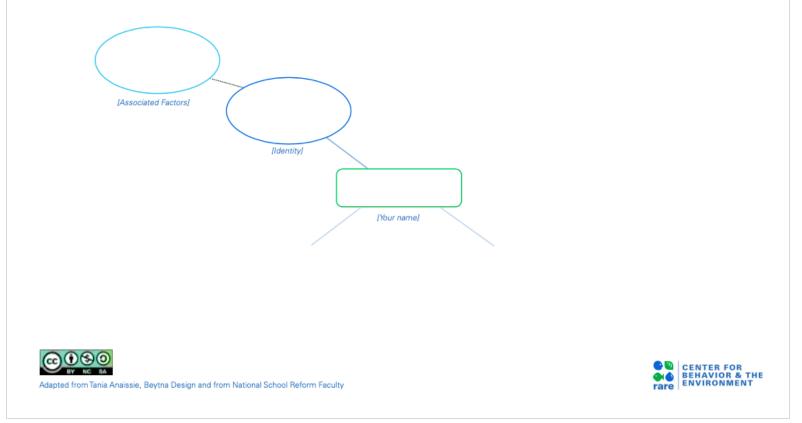


We often state that we want to use behavioral tools and strategies to influence the behaviors of other people for good. But we want to think about what that really means and how we make sure that we are indeed doing good.

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

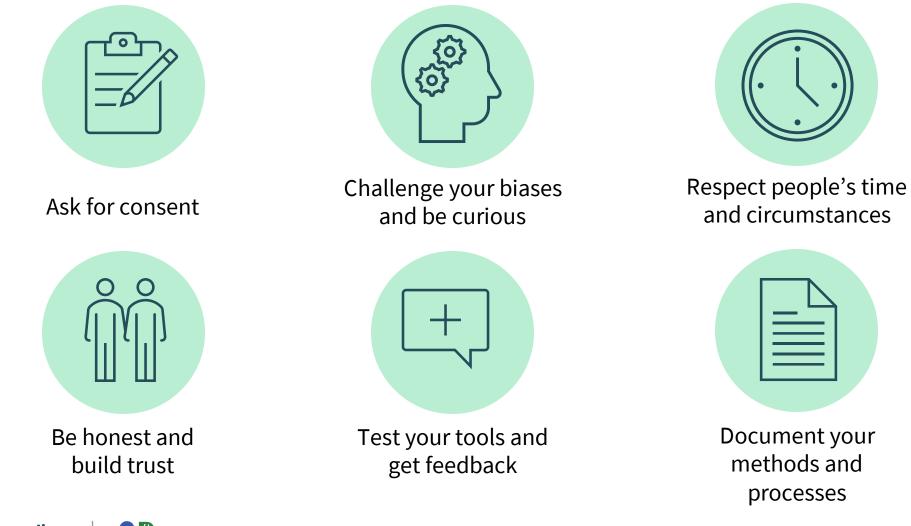








Research Best Practices

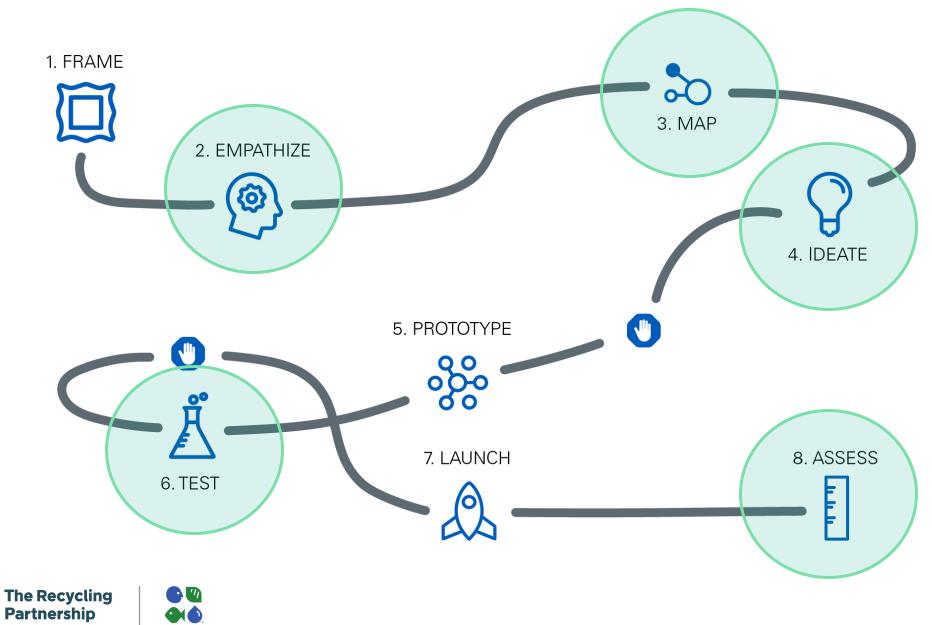




The Importance of Good Data

Solving for Circularity

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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.



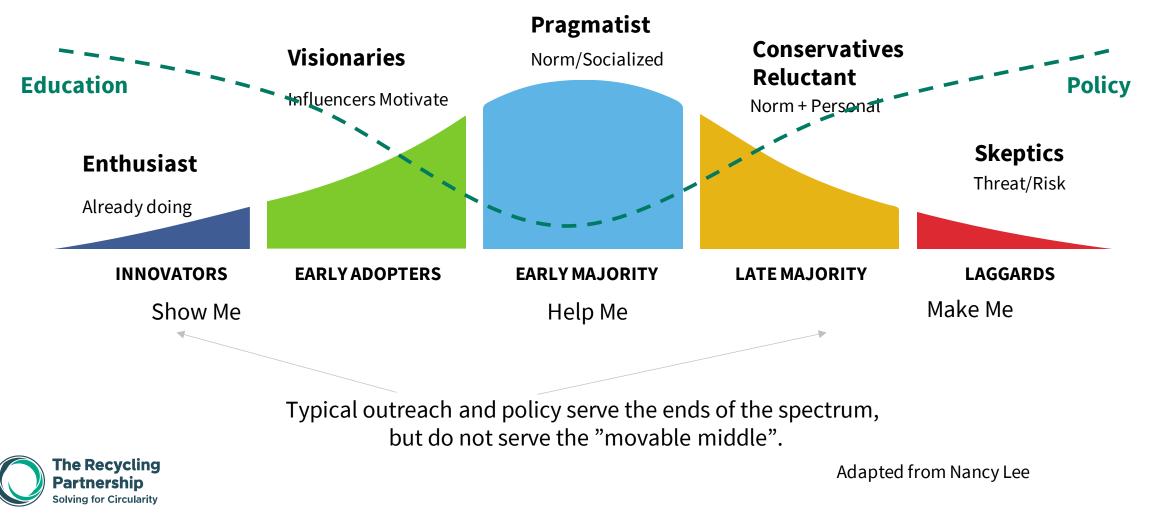
Those that do participate still put some (38.5%) of their materials in the trash, disposing of another 2,130 lbs.

	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?

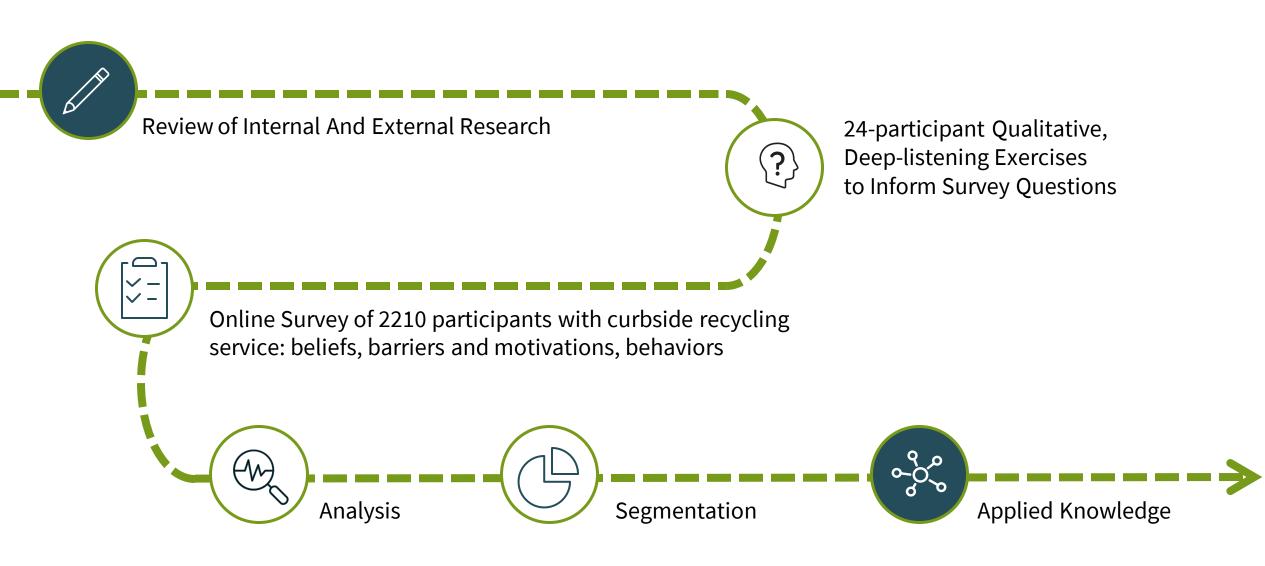
Not (YET) Participating

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



Based on our Feet on the Street data

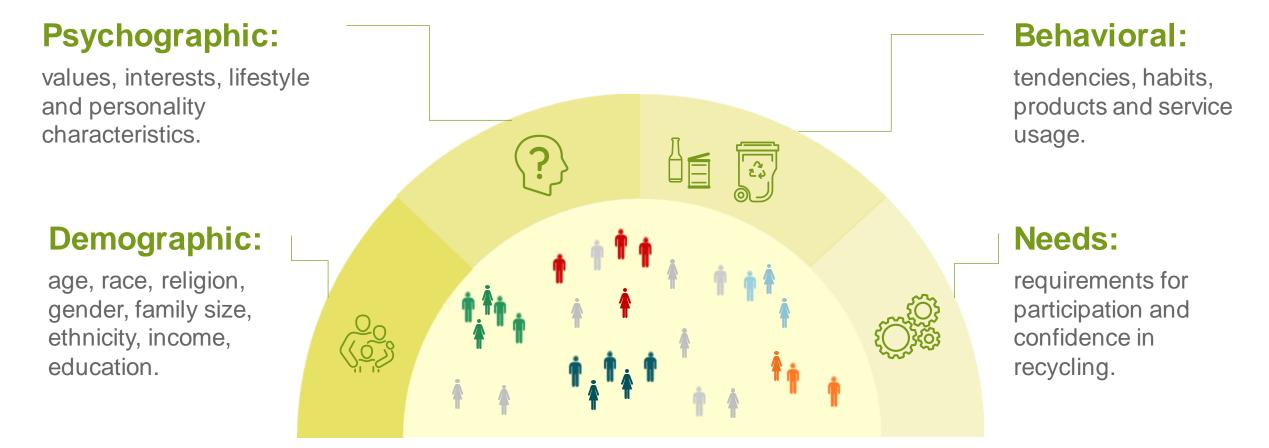
Our Process From Research to Applied Knowledge





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	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 teachOvercome 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



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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>	

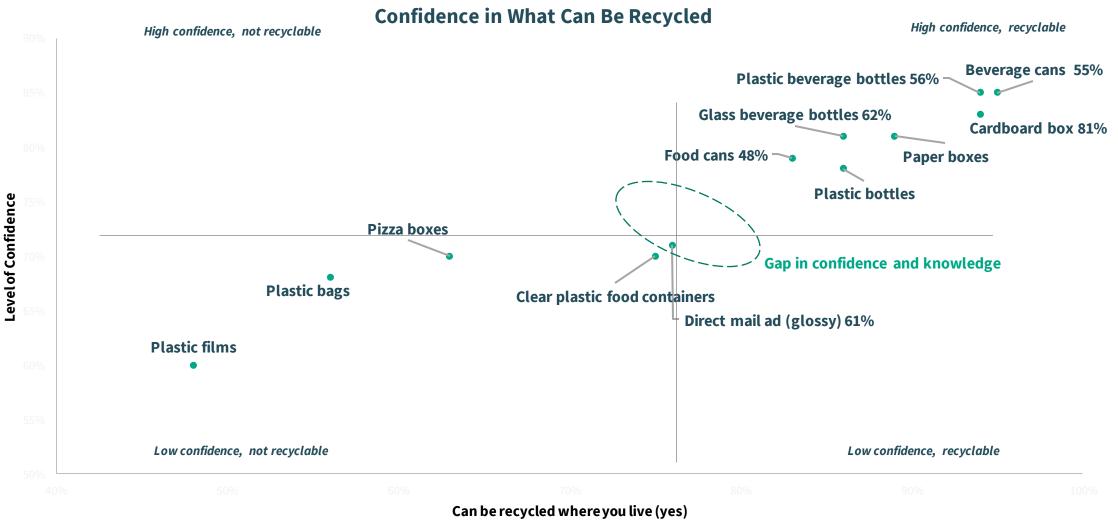
The Recycling Partnership Solving for Circularity

- Tips: "How clean is clean?"
- Tailored instructional information

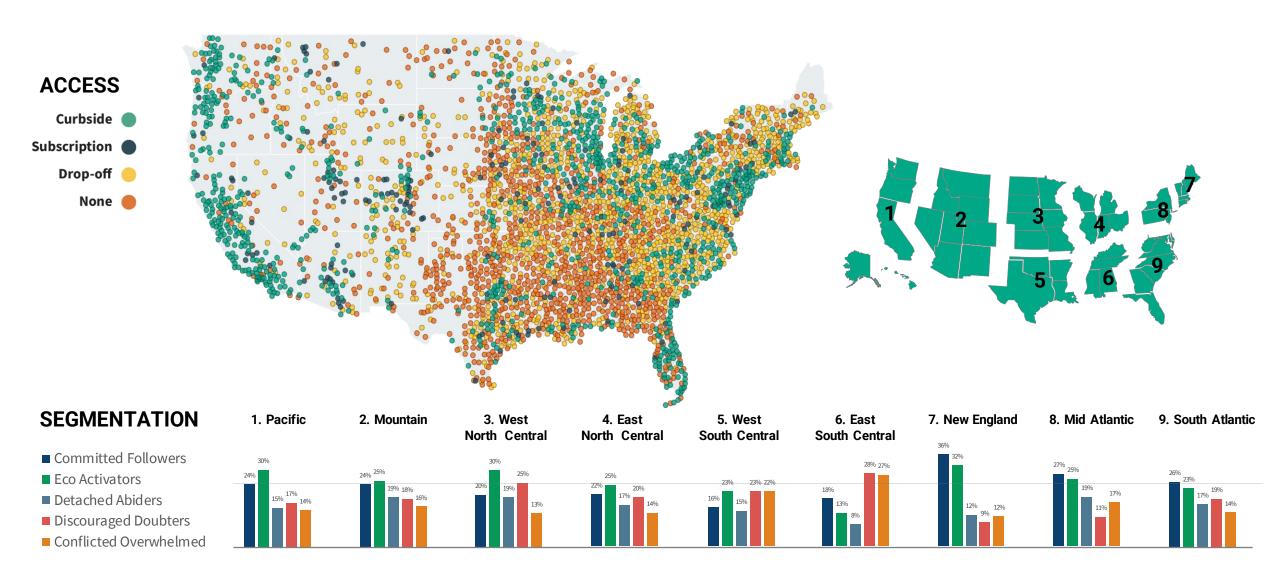
• Social proof that others are participating, and that leadership supports recycling.

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.

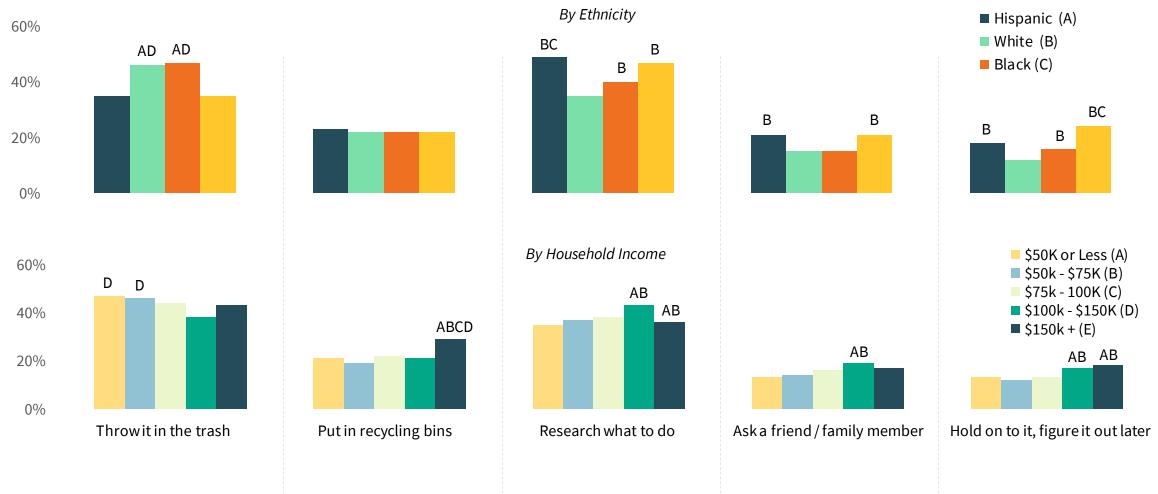








White, as well as lower income households, are less likely to figure out whether to recycle items.

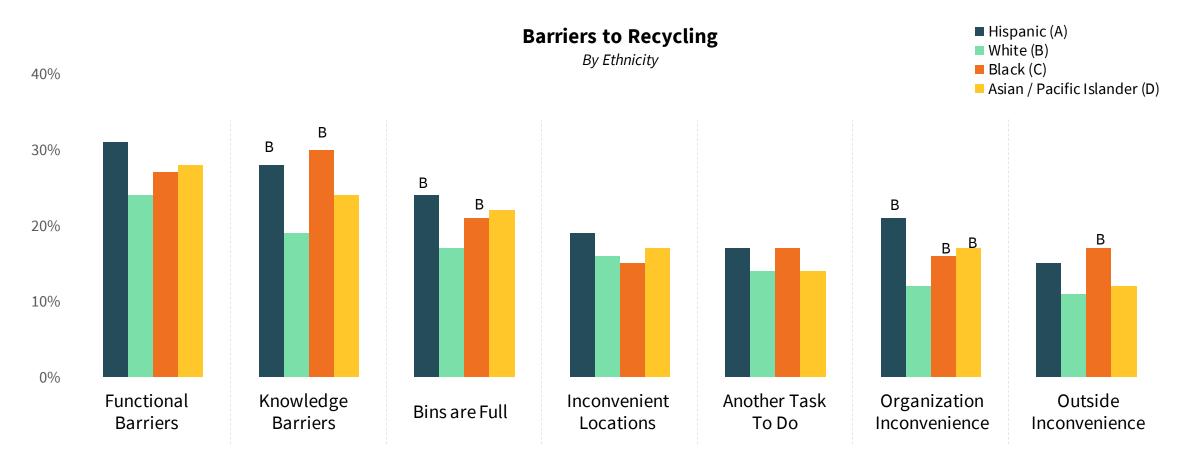


Action When Don't Know What To Do



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.



Get in Touch:

Elizabeth Schussler

schussler@recyclingpartnership.org

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S recyclingpartnership.org



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

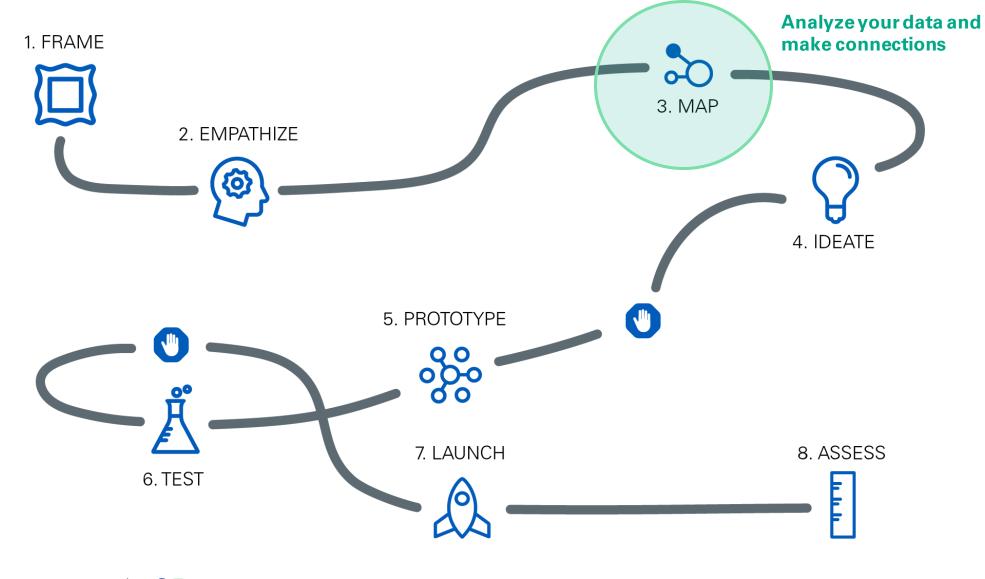
Are there any trends you notice among segments of people represented in the data?



Mapping Behavioral Insights



The Behavior-Centered Design Journey





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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





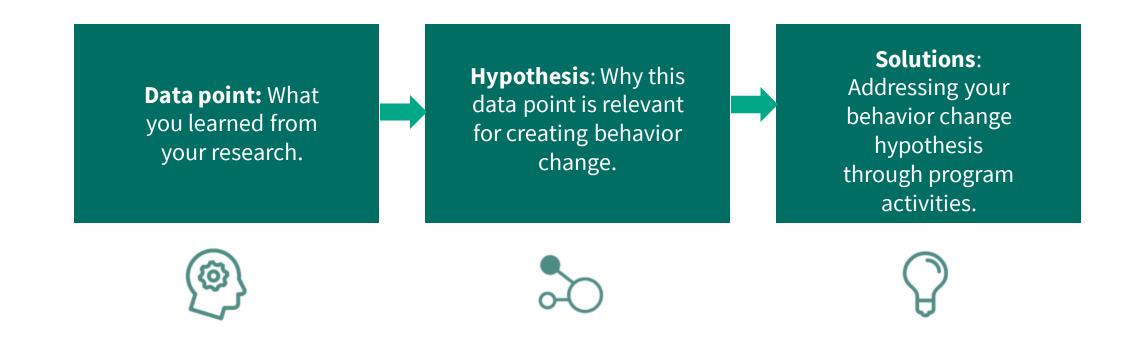
Review your data for your case and notes from the Empathize step. Remember to question your assumptions! Based on your experience and data, what do you think is most likely to make a difference?



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

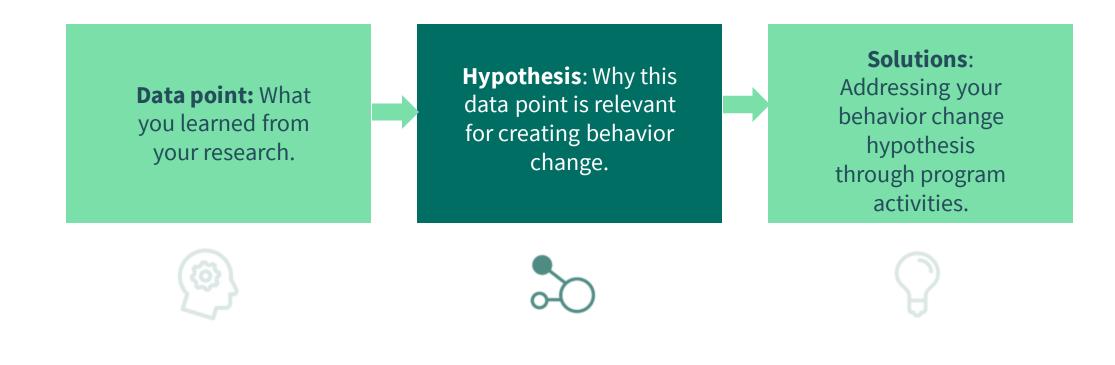


Step 2 Write a Hypothesis





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.

