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AN INTRODUCTION TO ASTRX

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We work across the system ... across the country...



STATE and LOCAL









MRF



RESIDENTS



250+ community partners

... growing access to resources and data



~400,000 carts More than \$20MM of new infrastructure 47%



of Americans don't automatically have curbside recycling. 2016 SPC Access Study of packaging is not being recovered in the home.

The Recycling Partnership

60%

Half plus half equals **A WHOLE LOT OF OPPORTUNITY.**





RECYCLING IS A LOOSELY CONNECTED, BUT HIGHLY DEPENDENT SYSTEM







The Sustainable Packaging Coalition and The Recycling Partnership have started a new initiative that will build a roadmap for a stronger American recycling industry.



What is Systems Thinking?







NAVIGATING THE RECYCLING SYSTEM

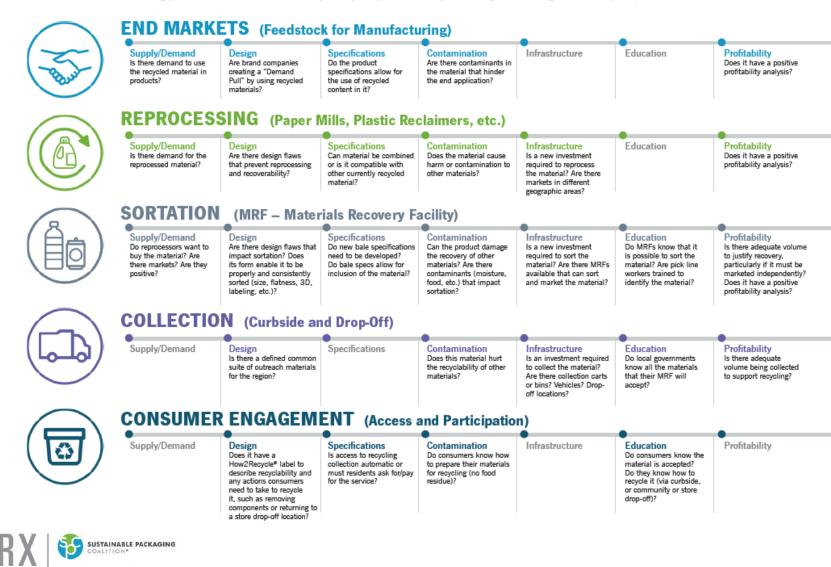






NAVIGATING THE RECYCLING SYSTEM

For packaging to be recycled successfully, we must consider how it flows through each of the five elements of the recycling system: manufacturing, reprocessing, sorting, collecting and engaging consumers. To start thinking about the criteria that can help assess the recyclability of a product and its ability to create reliable and valuable manufacturing feedstock, use the table below. Think of this as a starting point for a conversation about the recyclability of a product. Start by considering the ultimate goal: that a recycled product finds an end market.



Applying Systems Thinking to Recycling THE RECYCLING

PARTNERSHIP

Manufacturer DEMAND DRIVES environmental gains.

The system needs reliable quantity, quality, and cost in supply.

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Critical to success of recycling industry
"You don't sell scrap, someone buys it"
Brands/Producers have power to support (while helping own triplebottom line)





Each material type **REPROCESSOR** has unique challenges.

One thing in common is the need for **predictable quality** as both input and output.

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REPROCESSING

Core, Transitional & Fringe
 The future of the material mix





The MRF is the backbone of the recycling system.

But not all Materials Recovery Facilities are the same.

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What is contamination? MRF-sheds





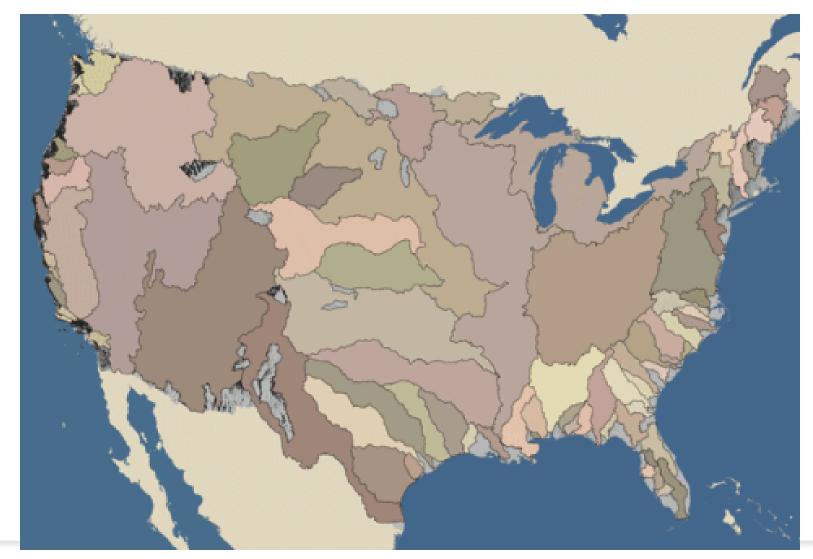
a MRF-shed?



SUSTAINABLE PACKAGING



Like a Watershed, but for Recyclables





MRF-shed Mapping





Sample Common Suite



Aluminum and Steel Cans empty and rinse



Food and Beverage Cartons

empty and replace cap



Bottles and Jars



Mixed Paper, Newspaper, Magazines, and Flattened Cardboard



Kitchen, Laundry, Bath: Bottles and Containers

empty and replace cap





Do Not Bag Recyclables No Garbage



No Plastic Bags (return to retail)



No Food or Liquid (empty all containers)



No Clothing or Linens (use donation programs)



No Tanglers (no hoses, wires, chains, or electronics)



We need to **MEASURE what is CAPTURED** at the **curb more accurately so** we can better **plan and collect** more quality materials at the curb.

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THE RECYCLING

PARTNERSHIP

COLLECTION

How do we measure recycling?
Capture Rate vs. Recycling Rate







Recycle.







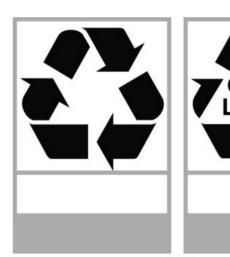
CONSUMER ENGAGEMENT

How2Recycle Making Recycling MoreBetter





How2Recycle is designed with the consumer in mind.







Widely Recycled

At least 60% of Americans can recycle this package at curbside recycling or drop-off recycling.

*Not recycled in all communities

Sometimes Recycled

Between 60% and 20% of Americans can recycle this package at curbside recycling or drop-off recycling. Check your local program.

Not Yet Recycled

Either less than 20% of Americans can recycle this package, or, it could cause a problem in a recycling facility.

Store Drop-off

Anyone who lives near a store that accepts plastic bags and wraps for recycling can take this packaging to that store and recycle it there.









What do we know?

Keep It Simple

ALUMINUM

Aerosol Can Foil or Foil-like Container Other Aluminum Containers **CARTONS**

CARION

PAPER

Cold Cups Hard Cover Books Hot Cups Ice Cream Container Junk Mail Kraft Bags Magazines Newspaper OCC Office Paper Paperback Books Paperboard Boxes Pizza Boxes Shredded Paper

GLASS

Bottles and Jars Drinking Glass Mugs Window

PLASTIC

Buckets Bulky Plastic EPS Foam Flower Pots HDPE Bottles & Jars Non-bottle HDPE Containers & Lids Non-bottle PET Containers & Lids **Other Containers & Packaging** Other Drink Bottles Other Food Bottles & Jars Other Household Bottles & Jars Other Tubs & Lids PET Bottles & Jars PET Thermoform **PP Bottles PP Containers & Lids** Produce, Deli & Bakery Containers, Cups, Trays

STEEL

Aerosol Can Pots and Pans Scrap Metal



Cans





Aluminum and Steel Cans empty and rinse

Food and Beverage Cartons empty and replace cap

Bottles and Jars empty and rinse



Mixed Paper, Newspaper, Magazines, and Flattened Cardboard

Kitchen, Laundry, Bath: Bottles and Containers empty and replace cap

Plastic



Consistent, simple messaging works best.





What will we sort out next?





NEXT STEPS:

- Recommendations on metrics
- Recycled content goals and best practices
- Recycling workshops
- Working with other organizations
 - Open to ideas



Thank You!

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