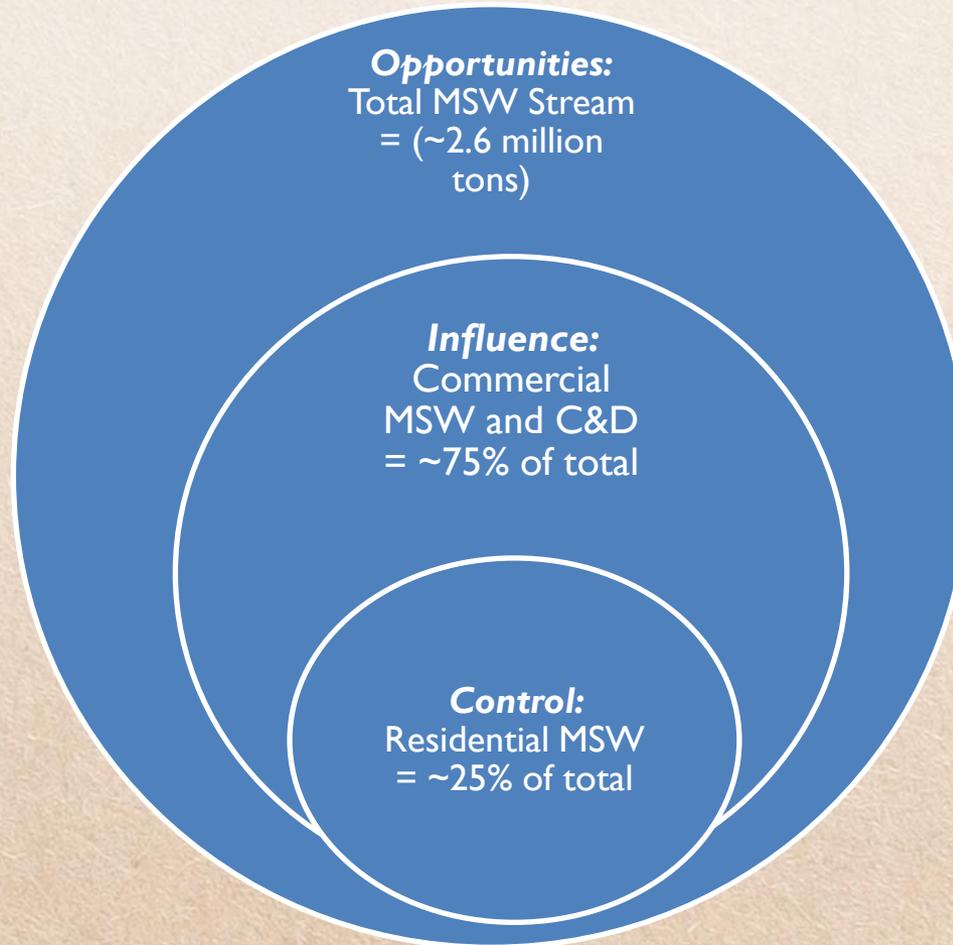


Philadelphia Residential Solid Waste & Recycling Trends: FY 2015 Update

Presented to the Solid Waste & Recycling Advisory Committee

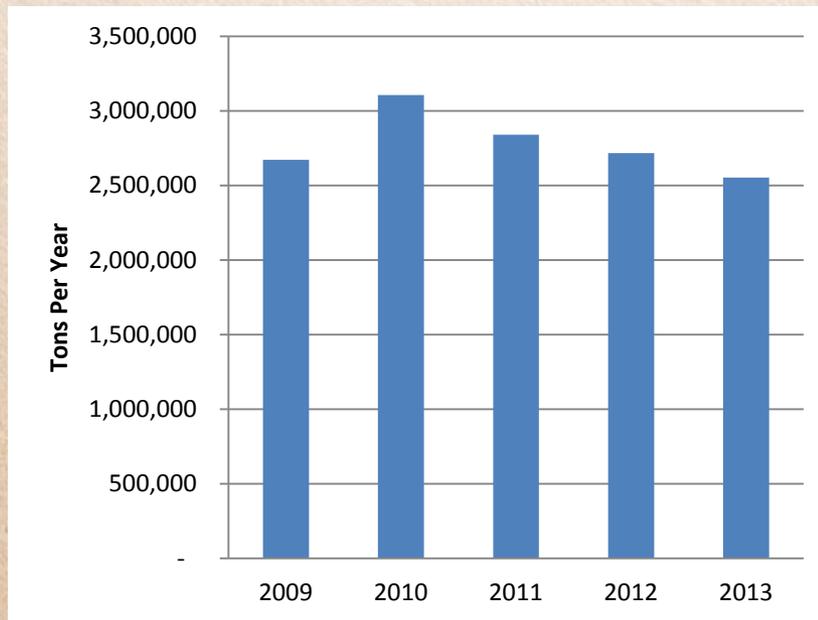
Phil Bresee
Director of Recycling

Philadelphia's MSW Circle of Influence

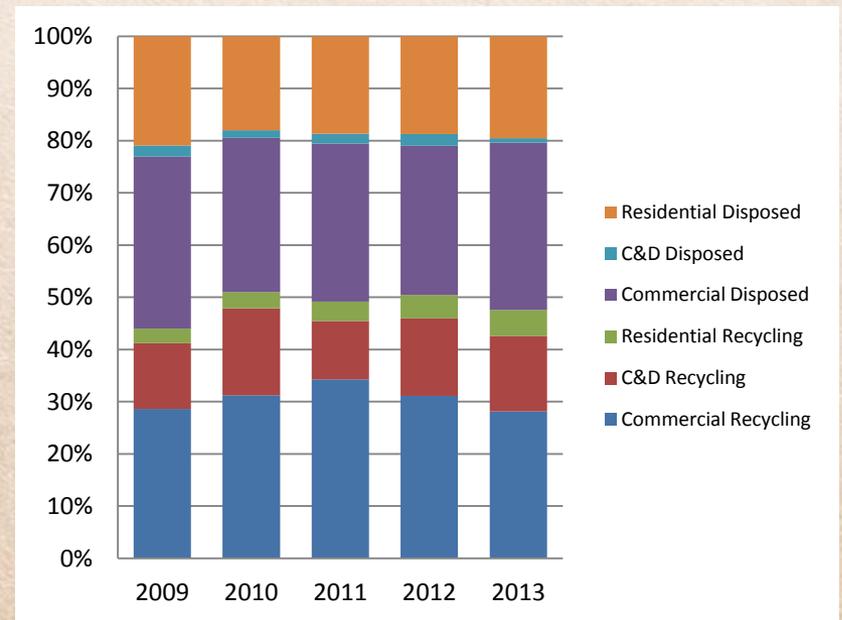


Overall MSW Trends...

Philadelphia MSW Generation 2009-2013



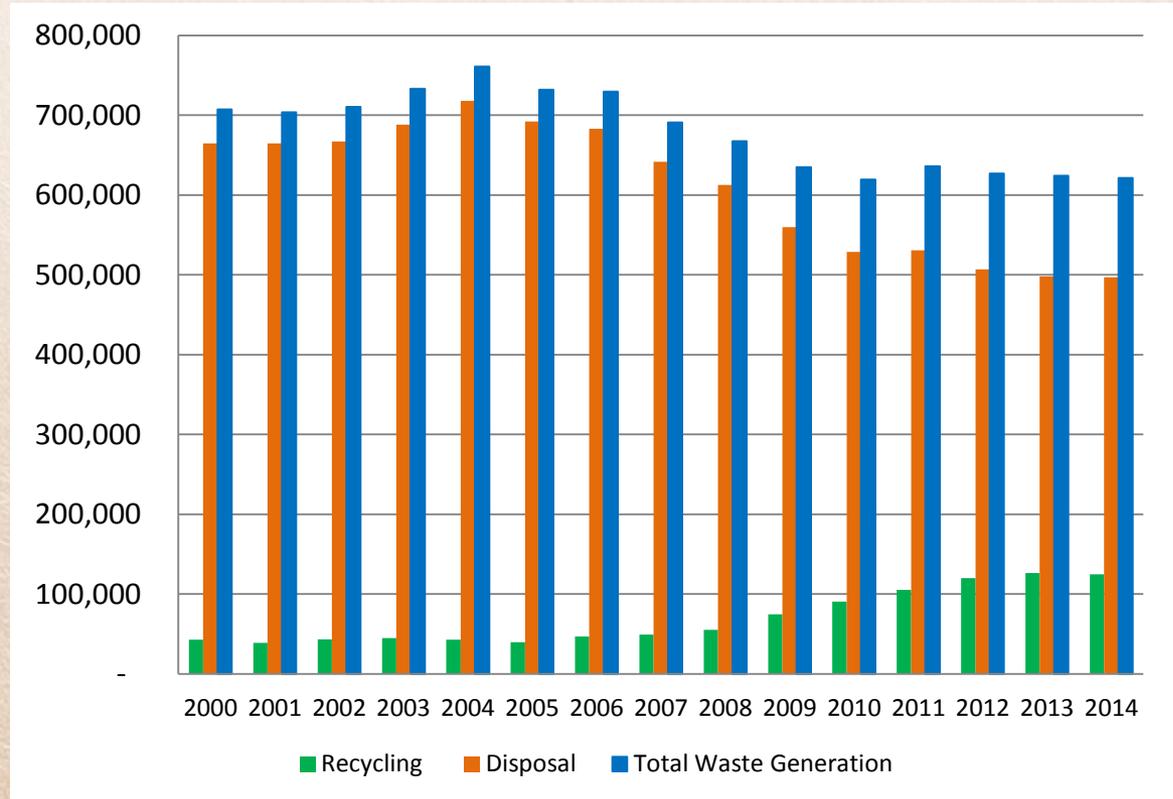
Philadelphia MSW by Generator Type 2009-2013



Total "all-in" recycling rate has ranged between 44% and 51%.

Residential MSW Trends FY 2000 – FY 2014

- Curbside recycling tonnages up 200+% since 2005
- Residential disposal tonnages down ~30% from peak year (FY 2004)
- Total residential MSW generation down 19% from FY 2004



Residential MSW FY 2014 vs. FY 2015 (YTD)

	CURBSIDE RUBBISH FY 2014	CURBSIDE RUBBISH FY 2015	% Change	CURBSIDE RECYCLING FY 2014	CURBSIDE RECYCLING FY 2015	% Change	OVERALL MSW GENERATION FY 2014	OVERALL MSW GENERATION FY 2015	% Change
JULY	46,928	48,039	2.37%	11,176	11,167	-0.09%	58,105	59,206	1.90%
AUGUST	44,031	42,401	-3.70%	10,694	9,433	-11.79%	54,725	51,834	-5.28%
SEPT	40,515	43,793	8.09%	10,226	9,931	-2.89%	50,741	53,724	5.88%
OCT	42,921	42,941	0.05%	10,698	9,779	-8.59%	53,619	52,720	-1.68%
NOV	38,296	37,911	-1.01%	9,964	8,830	-11.38%	48,260	46,741	-3.15%
DEC	38,553	42,048	9.07%	11,914	10,851	-8.92%	50,467	52,899	4.82%
	251,244	257,133	2.34%	64,672	59,990	-7.24%	315,916	317,123	0.38%

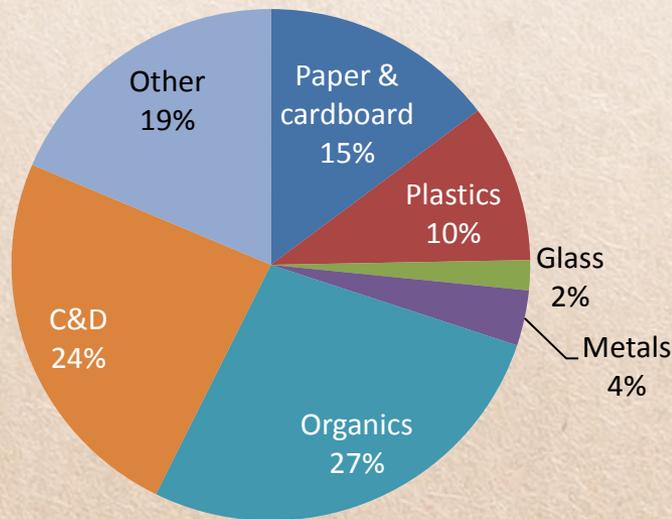
Recycling down...

Total MSW level...

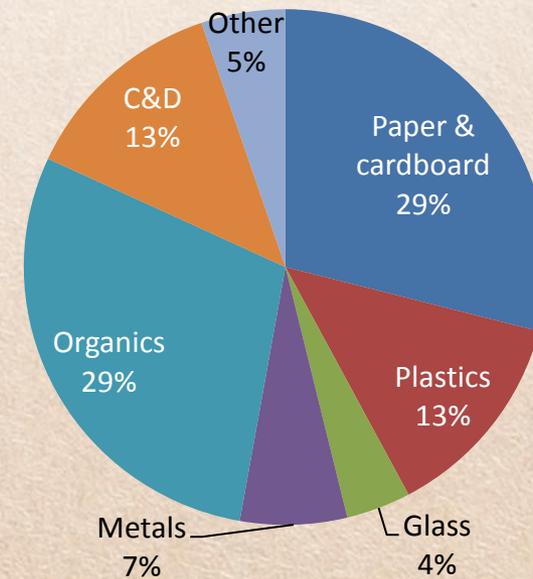
Trend or Aberration?

Changing Philadelphia MSW Stream...

Philadelphia Residential Disposed 2010

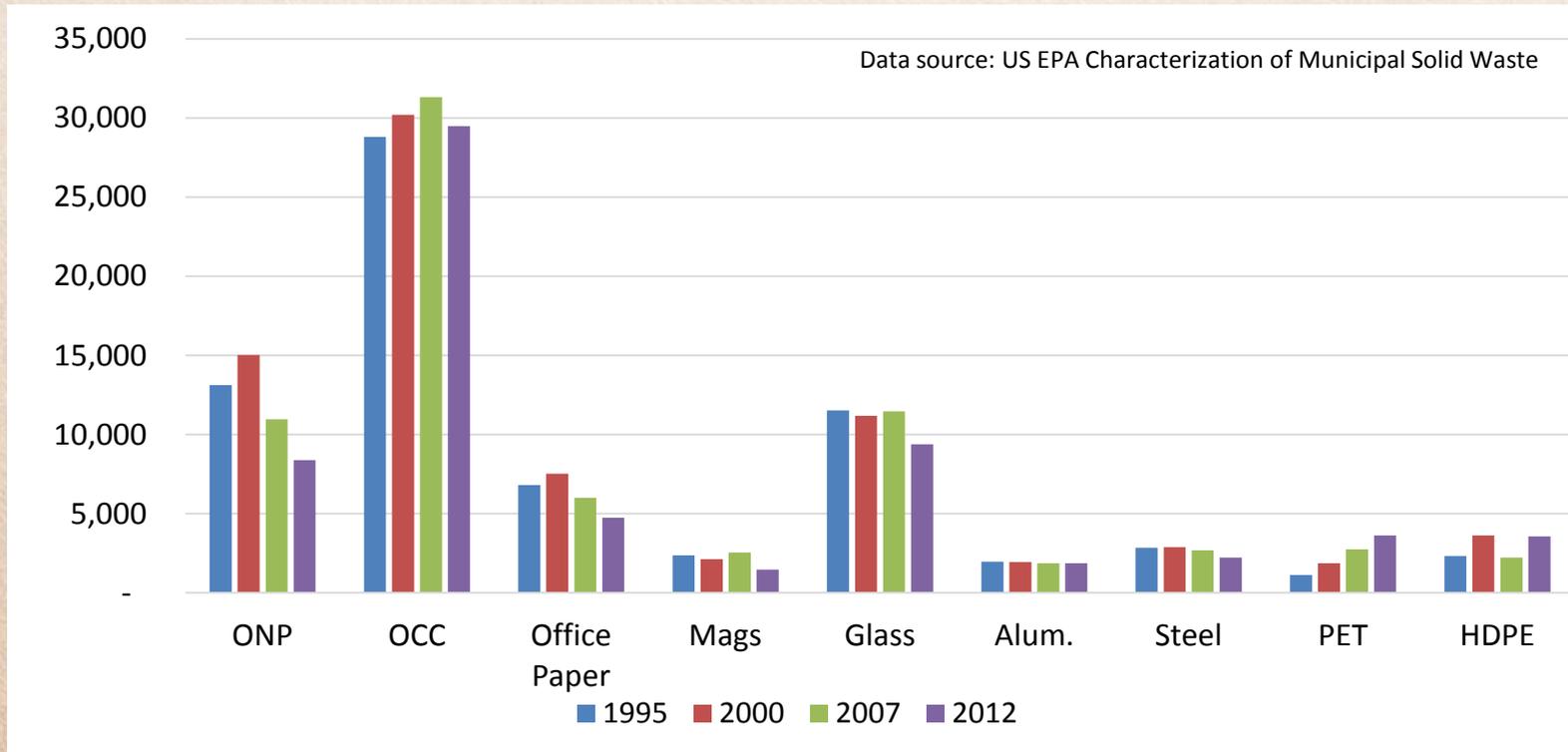


Philadelphia Residential Disposed 2000



MSW stream getting more difficult to recycle

Generation Trends for Commonly Recycled Materials in the U.S. (in 000's of tons)



- Nationwide decrease in standard recyclables of 12 million tons (15%)

Changing Outreach Focus

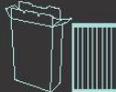
- Earlier campaigns & branding focused on encouraging recycling participation
- Emphasis on *recyclables quality* now key message across all platforms & partnerships
 - Recyclebank
 - Keep Philadelphia Beautiful
 - Recyclebycity.com
 - Civic associations
- Leave the bad stuff out!

RECYCLING IN PHILADELPHIA IS AT AN ALL-TIME HIGH, BUT SOME UNACCEPTED ITEMS ARE STILL ENDING UP IN RECYCLING BINS. THESE ITEMS CAN DAMAGE RECYCLING MACHINERY AND SLOW DOWN THE PROCESS. CHECK THIS LIST AND GET BEHIND RECYCLING, THE RIGHT WAY.

KNOW THE RECYCLING INS & OUTS



IN **OUT**

 CARDBOARD	 PAPER	PLASTIC BAGS
 METAL	 CARTONS	SOILED PAPER AND CARDBOARD
 PLASTICS	 GLASS BOTTLES AND JARS	TISSUES / PAPER TOWELS NAPKINS
		STYROFOAM™
		VHS TAPES
		ELECTRONICS
		WINDOW GLASS
		RUBBER
		FABRICS

LEARN MORE AND GET REWARDED FOR RECYCLING THE RIGHT WAY AT PHILADELPHIASTREETS.COM/RECYCLING



Operational Focus – Random Route Inspections



Photo courtesy of Peter Tobia

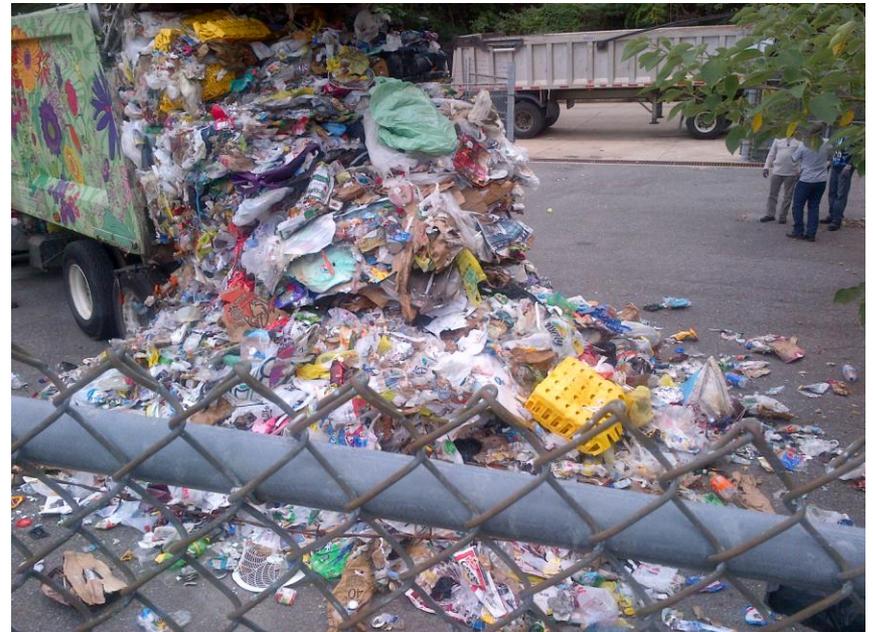
- Reduce on board contamination with better QA/QC & renewed emphasis on collection crew performance
- Crews cover 1,400 households per day; hardest workers in the City!
- Distinguish between honest mistakes vs. carelessness, cutting corners

Curbside Recyclables Load Inspections

Trucks randomly targeted in all sanitation areas



Loads tipped and examined at sanitation yard



Area 1 Recycling Load Inspections, 08/25/2014

Food waste & polystyrene foam



Recycling bins and bulky rigid plastics



Area 6 Recycling Load Inspections, 9/02/2014

Load contaminated with plastic bags...



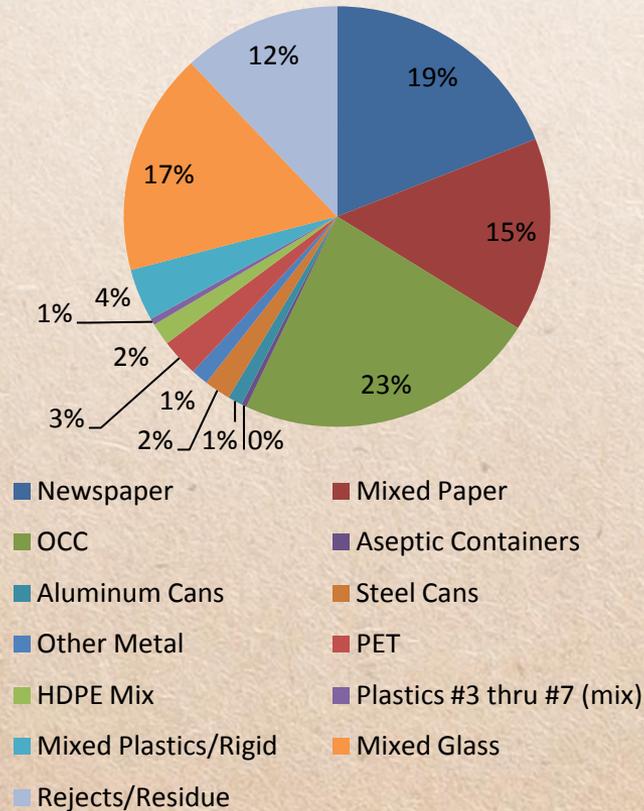
Area 4 Recycling Load Inspections, 09/05/2014

Load contaminated with textiles, hoses, bags, misc. garbage...

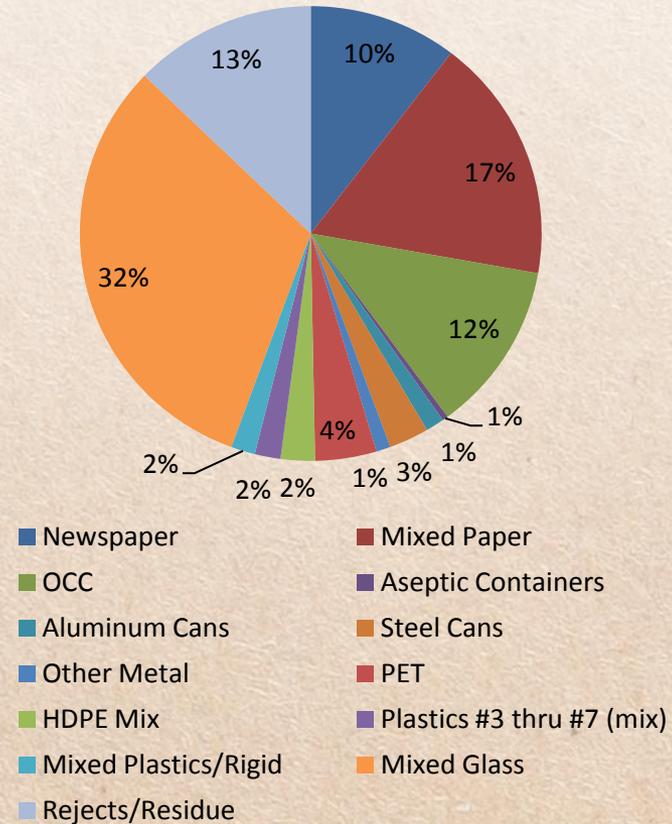


Philly's Evolving Recycling Ton: Fewer High-Value Materials

Inbound MRF Tons 2010



Inbound MRF Tons 2013



Where Do We Go From Here?



- *Macro-level:*
 - Better collaboration among packaging designers, brands, recycling industry
 - Bolster domestic recovered materials markets and end-use capacity (better insulate industry from geo-political shocks)
 - Address glass markets and end-uses
- *Local-level:*
 - Continued focus on recyclables quality
 - Increase public space & institutional recycling opportunities
 - Increase recycling in multifamily communities
 - Expand commercial recycling support
 - Examine bigger targets (organics)
 - Legislative & regulatory (commercial recycling, litter, organics)