

Moving Food Up the Recovery Hierarchy at the Baltimore Convention Center



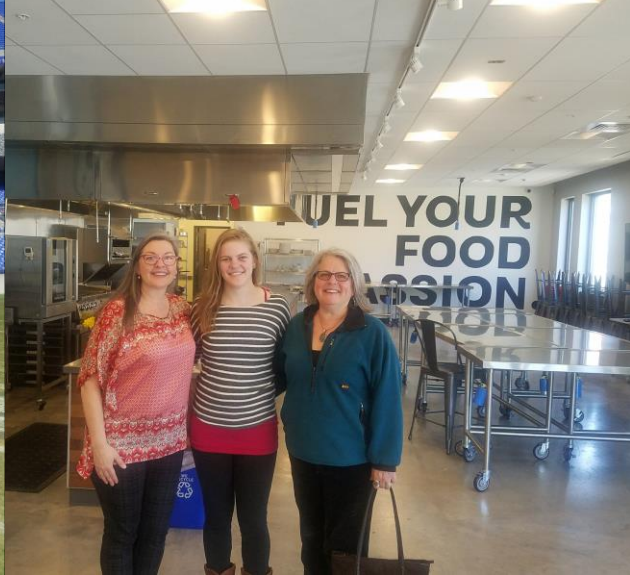
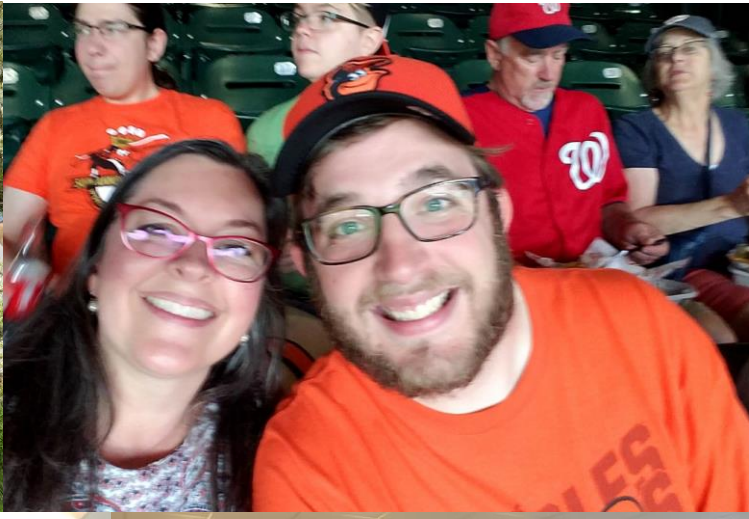
ASTRAPTO

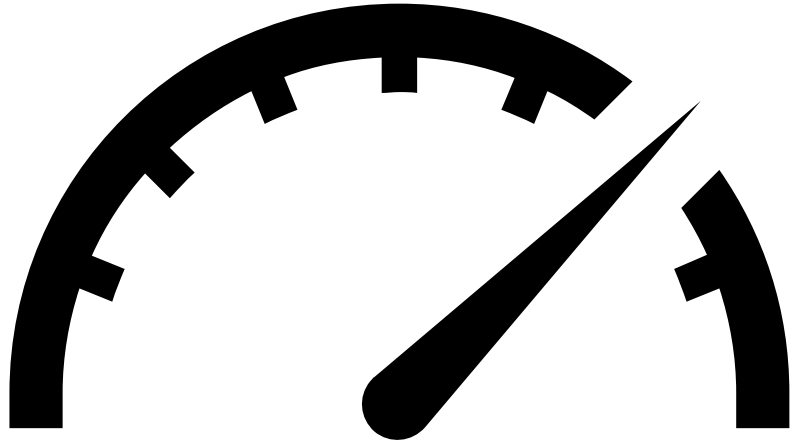
Dr. Aurora Dawn Benton
www.astrapto.com
aurora@astrapto.com



Joan Plisko, PhD
www.pliskosolutions.com
joan@pliskosolutions.com

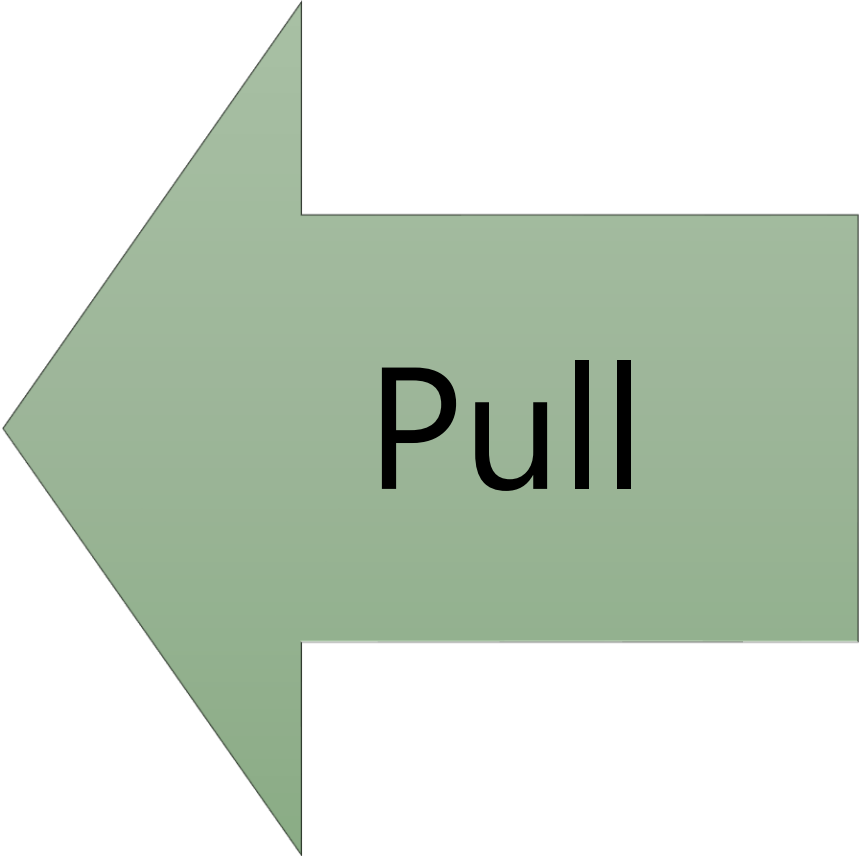
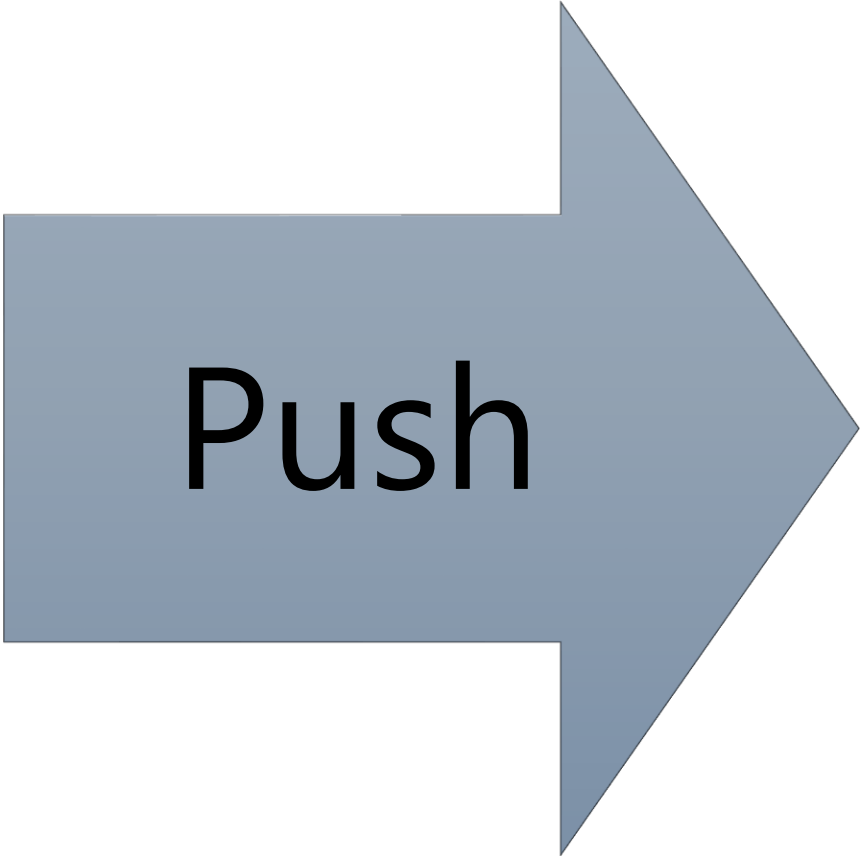
The WWF Baltimore Project



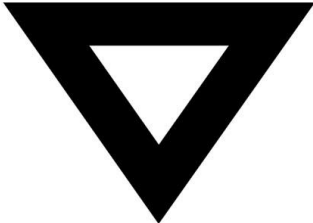


How to best move the needle?

Getting the Attention of an Entire
Sector



The Right Partners Are KEY!



The
Baltimore
Convention Center



Centerplate

Making It Better To Be There Since 1929.®





<https://www.nytimes.com/2018/06/04/podcasts/the-daily/charm-city-baltimore-freddie-gray.html>

Introducing 'Charm City,' a 5-Part Audio Series from 'The Daily'

A year after the killing of Freddie Gray, a teenager in Baltimore was fatally shot by the police. This is the story of his life and death, and of a grieving family looking for answers.



Why the Baltimore Convention Center?

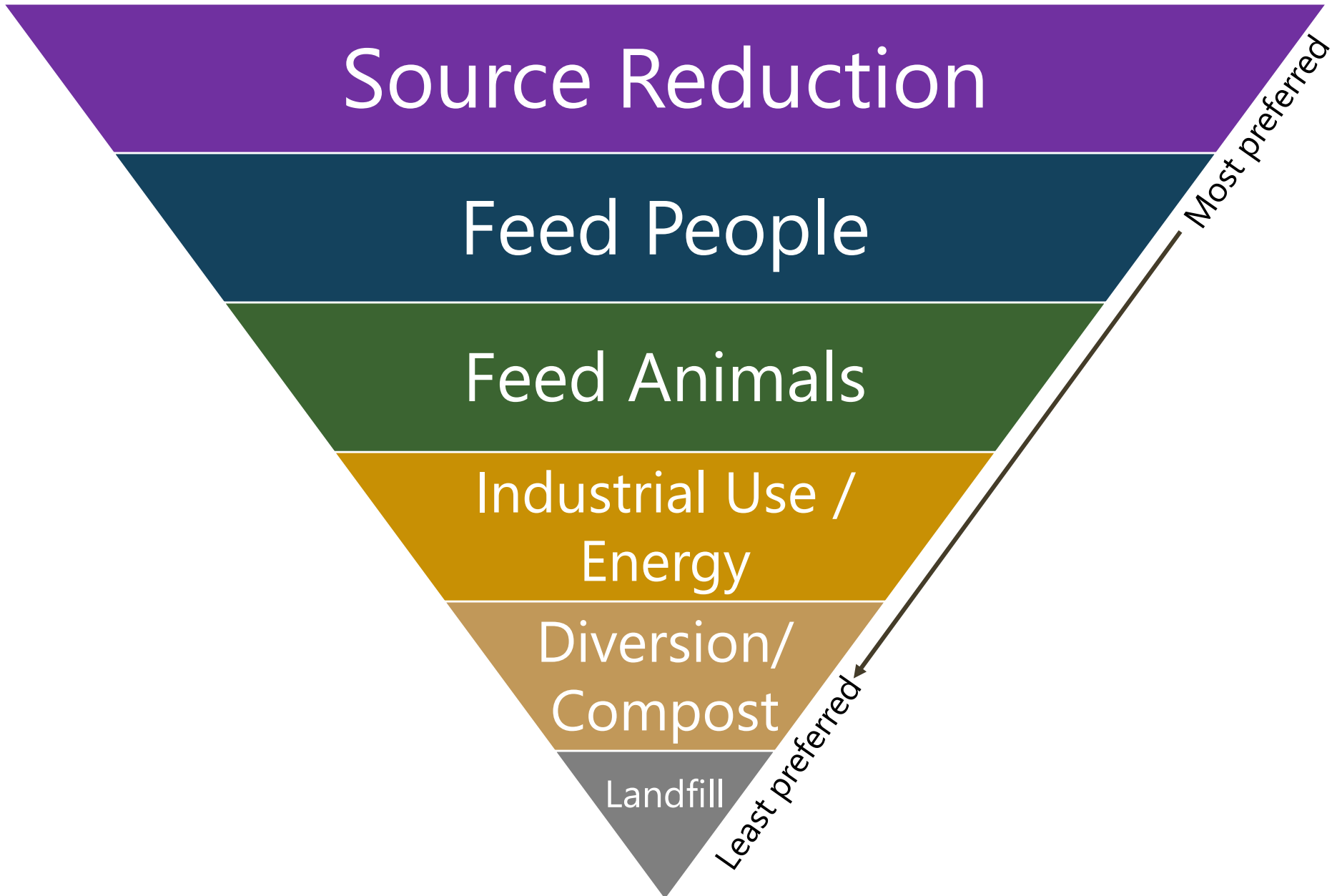


What resonates most?

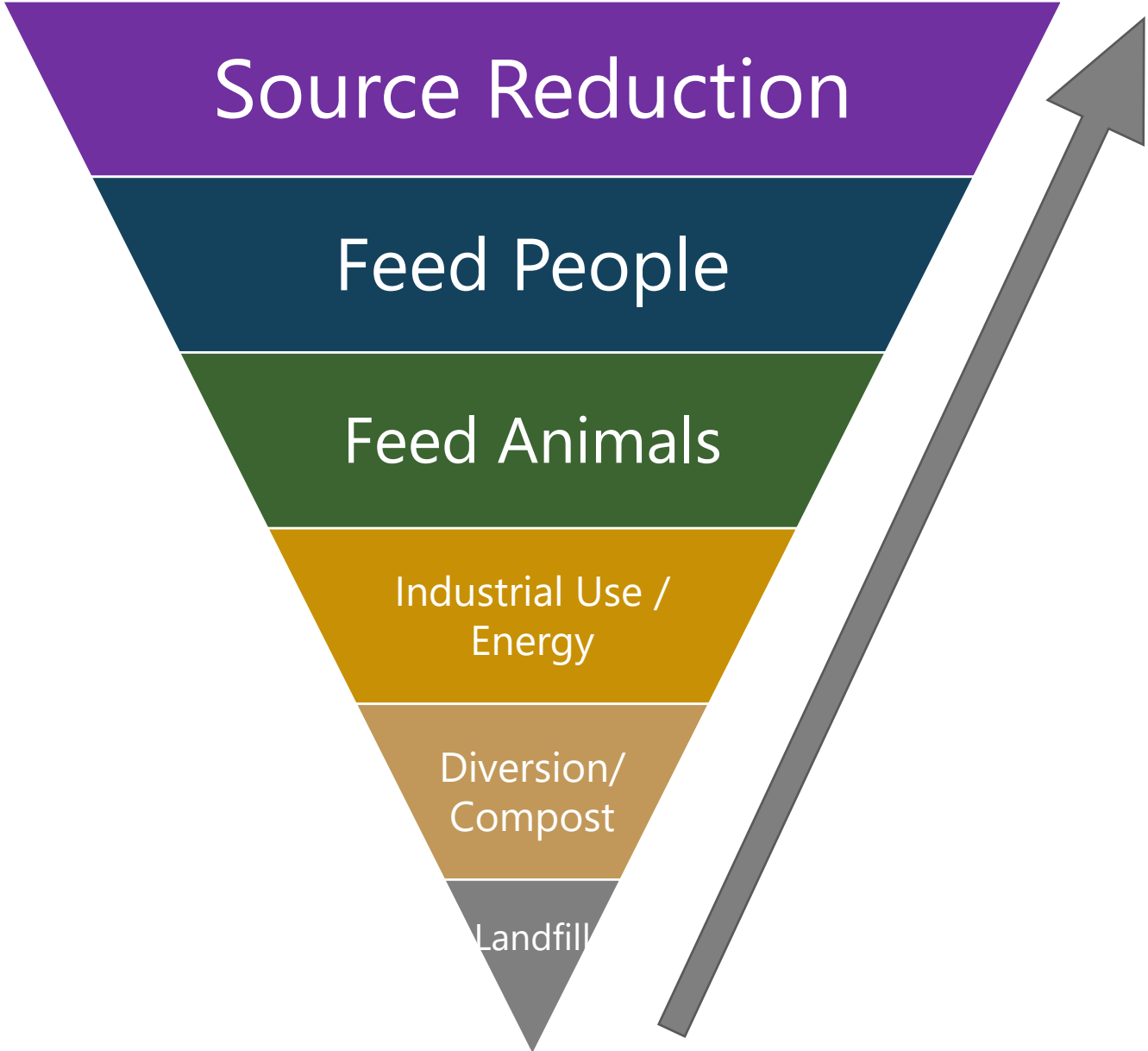
"According to *Feeding America*, the level of food insecurity in Baltimore is 23.8%, almost double the national rate."

Environmental Protection Agency

Food Recovery Hierarchy



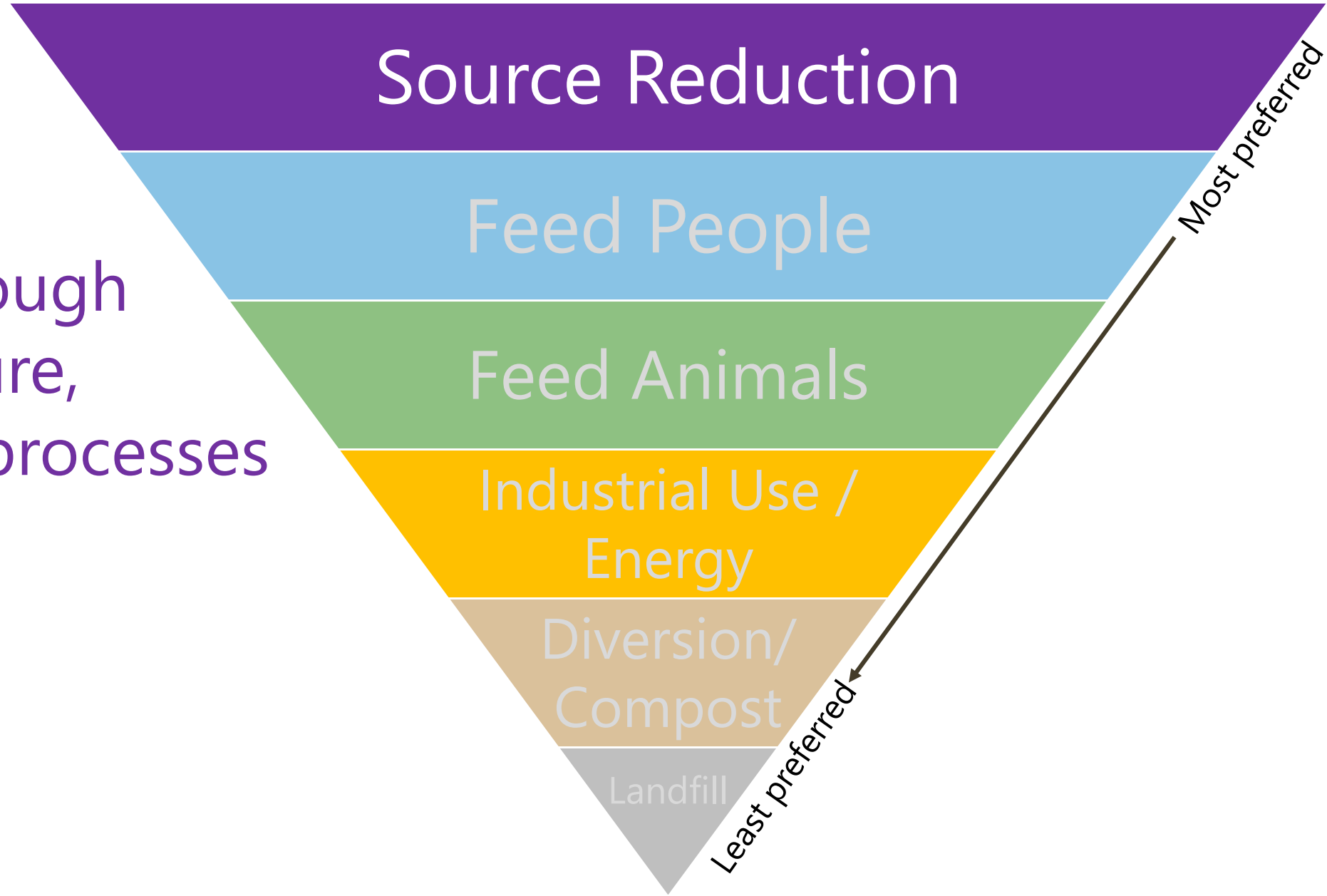
Moving Food Up the Hierarchy



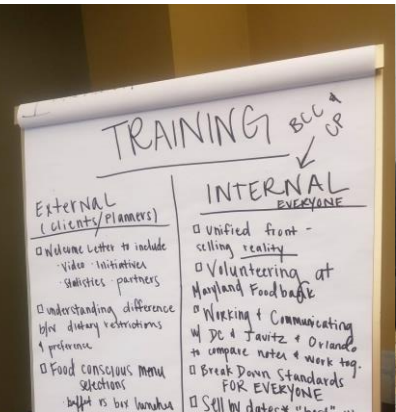
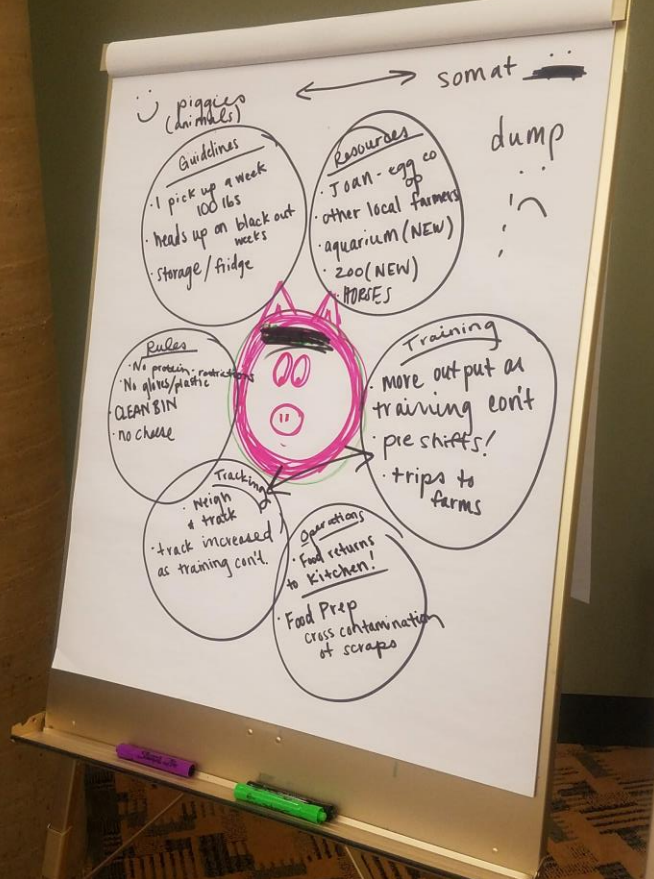
May 2017	May 2018 (first month of pilot)
1191.5 LBS.	2,066 LBS.
	210 LBS
159 LBS.	380 LBS.
769 LBS. (Somat)	1007 LBS (Somat)
1425 LBS.	145.4 LBS.

Source Reduction

Prevention through change in culture, attitudes, and processes



45+ managers and staff trained in workshops



Educating the Industry

- July 11th, 2018
- Key Stakeholders
 - Hotels
 - Other hospitality and catering
 - Government
 - Vendors!







Measuring and Tracking Food Waste

Stage	Menu	Food Type	Food Description	Station/Person	Reason for Loss	Reusable / Recoverable	Measurement	Amount
1-Pre-prep	1-cooked eggs	Fruits	If necessary, enter a brief description to further identify the food.		Pre-prep and Prep: 1-Spoiled/insufficient quality 2-Unavoidable 3-Avoidable Service: 4-Recoverable 5-Not-recoverable	1-Repurpose internally 2-Donate 3-Pig Scraps	1-Pounds	Weight
2-Prep	2-Potatoes	Vegetables					2-Portions	Count
3-Service	3-yogurt	Meat					3-Other unit (specify)	TBD
4-Plate	4-fruit	Eggs						
	5-bread	Dairy						
	6-coffee cake	Bread						
	7-cereals	Packaged						
	8-milk							
	9-other							

Stage	Menu Item	Food Type	Food Description	Station/Person	Reason for Loss	Reusable / Recoverable	Measurement	Amount



Data for Buffet or Plated Event

Please provide the following numbers for attendees:

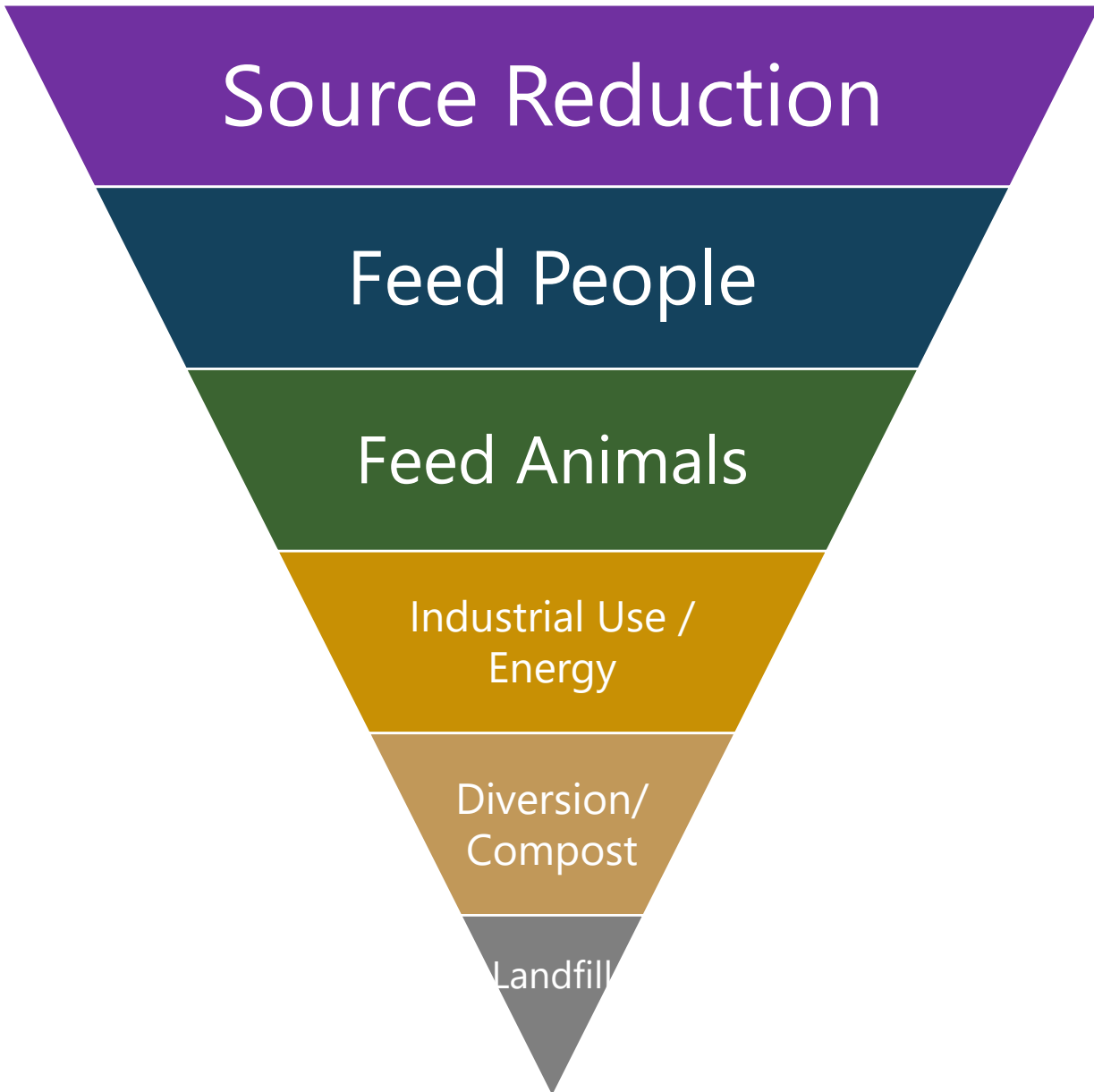
Phase	Attendees	
Expected	<input type="text"/>	number in the original BEO
Adjusted	<input type="text"/>	final number if changed from BEO
Actual	<input type="text"/>	number that actually attended

Please Complete This Table with All Items (by weight) Used for the Event. Weights can be entered as lbs or kgs, but must be consistent throughout.

item	ordered	prepped	avoidable prep	unavoidable prep	fired	consumed (calculated)	recoverable	unrecoverable	plate (calculated)
ex: chicken	40.00	36.80			35.20	13.80	8.00	6.40	7.00
						0.00			0.00
						0.00			0.00
						0.00			0.00



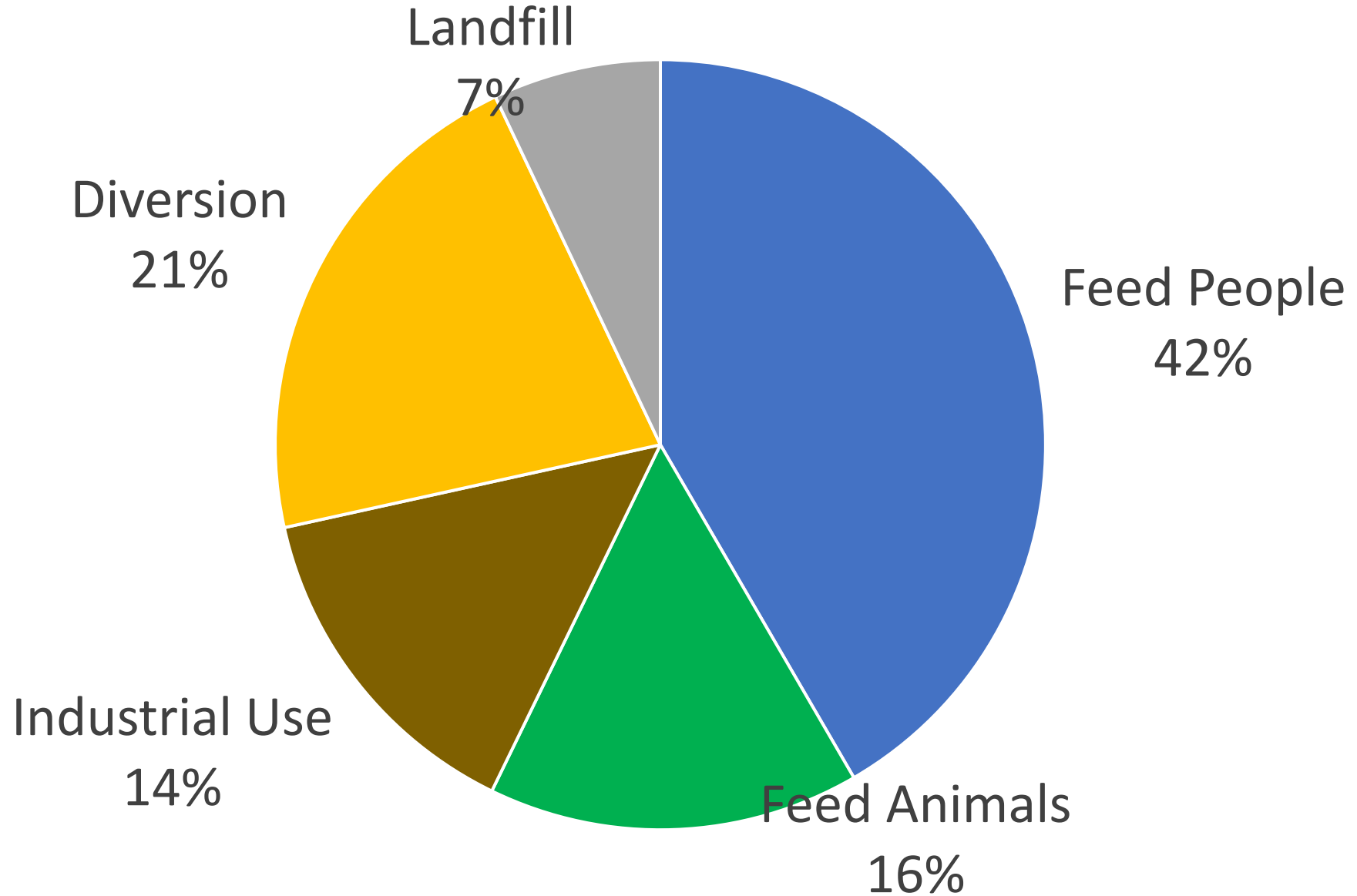
Amazing Results!



May 2017	May 2018 (first month of pilot)
1191.5 LBS.	2,066 LBS.
	210 LBS
159 LBS.	380 LBS.
769 LBS. (Somat)	1007 LBS (Somat)
1425 LBS.	145.4 LBS.

White Paper coming soon with more data

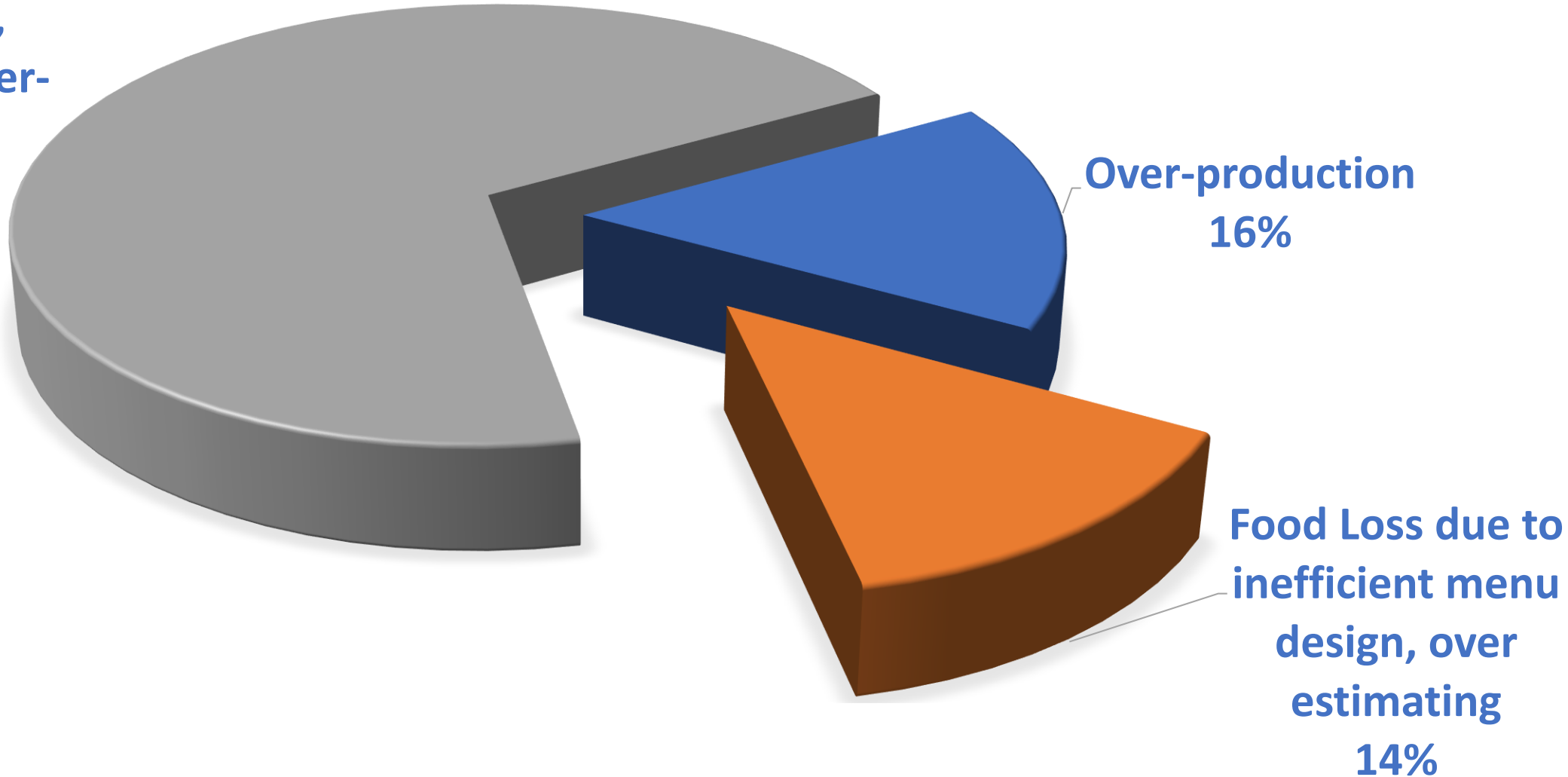
2018 Projected Recovery Channels



The Reality and the Challenge (Source Reduction)

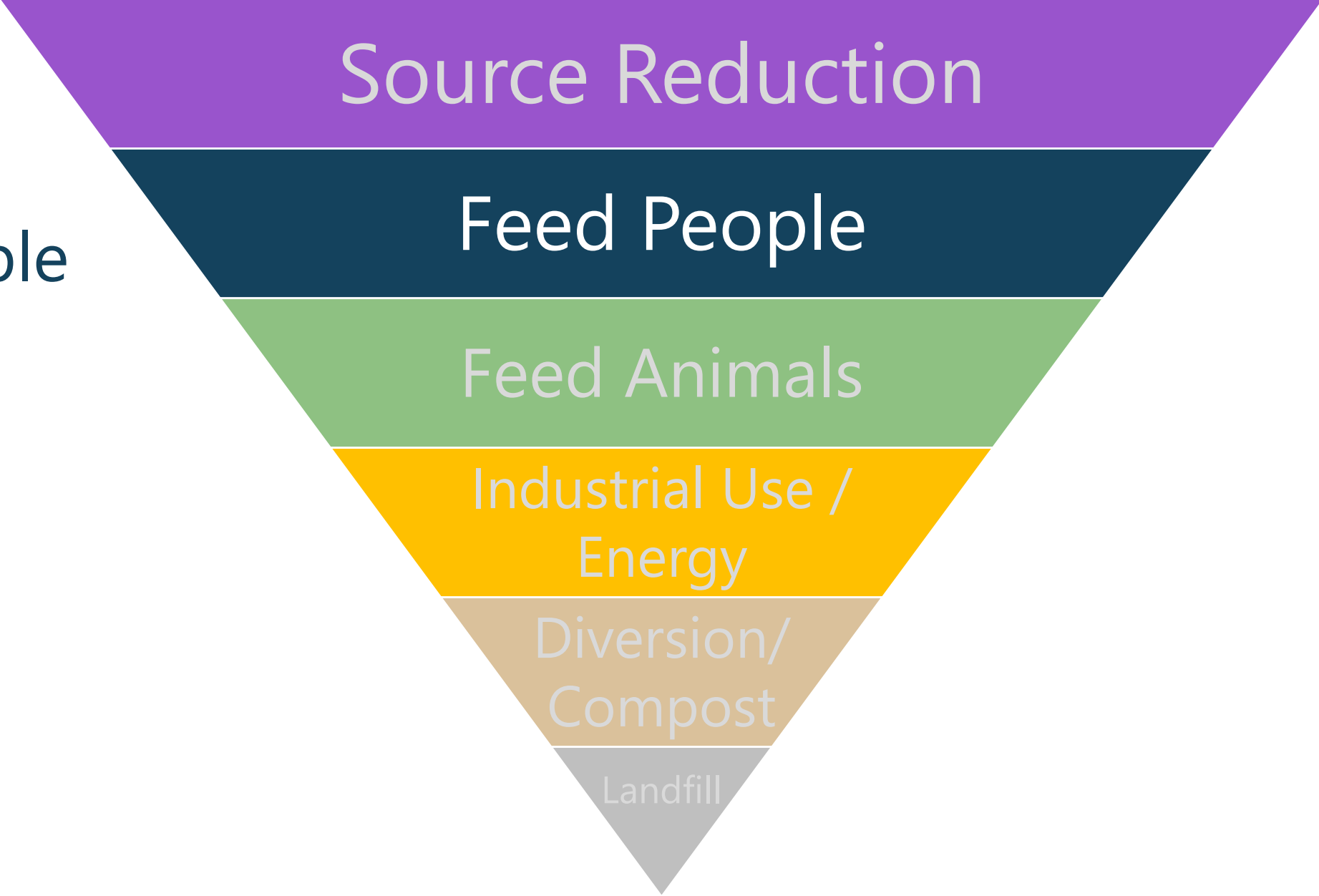
OPPORTUNITIES TO PREVENT FOOD WASTE

Food Loss due to
no-shows,
attrition, over-
ordering
70%

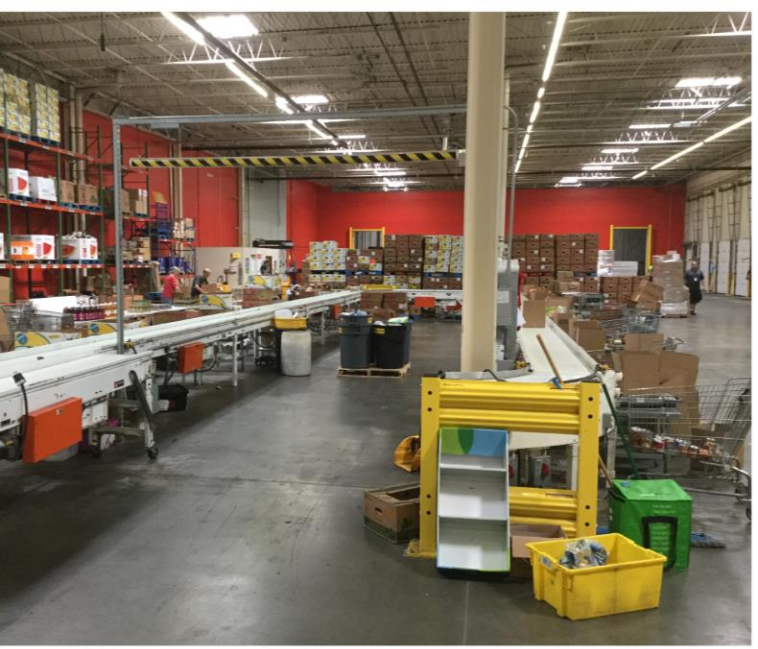


Feeding People

Use excess edible food to feed people

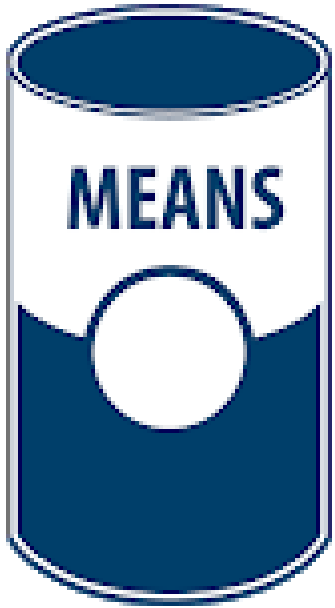


Maryland Food Bank





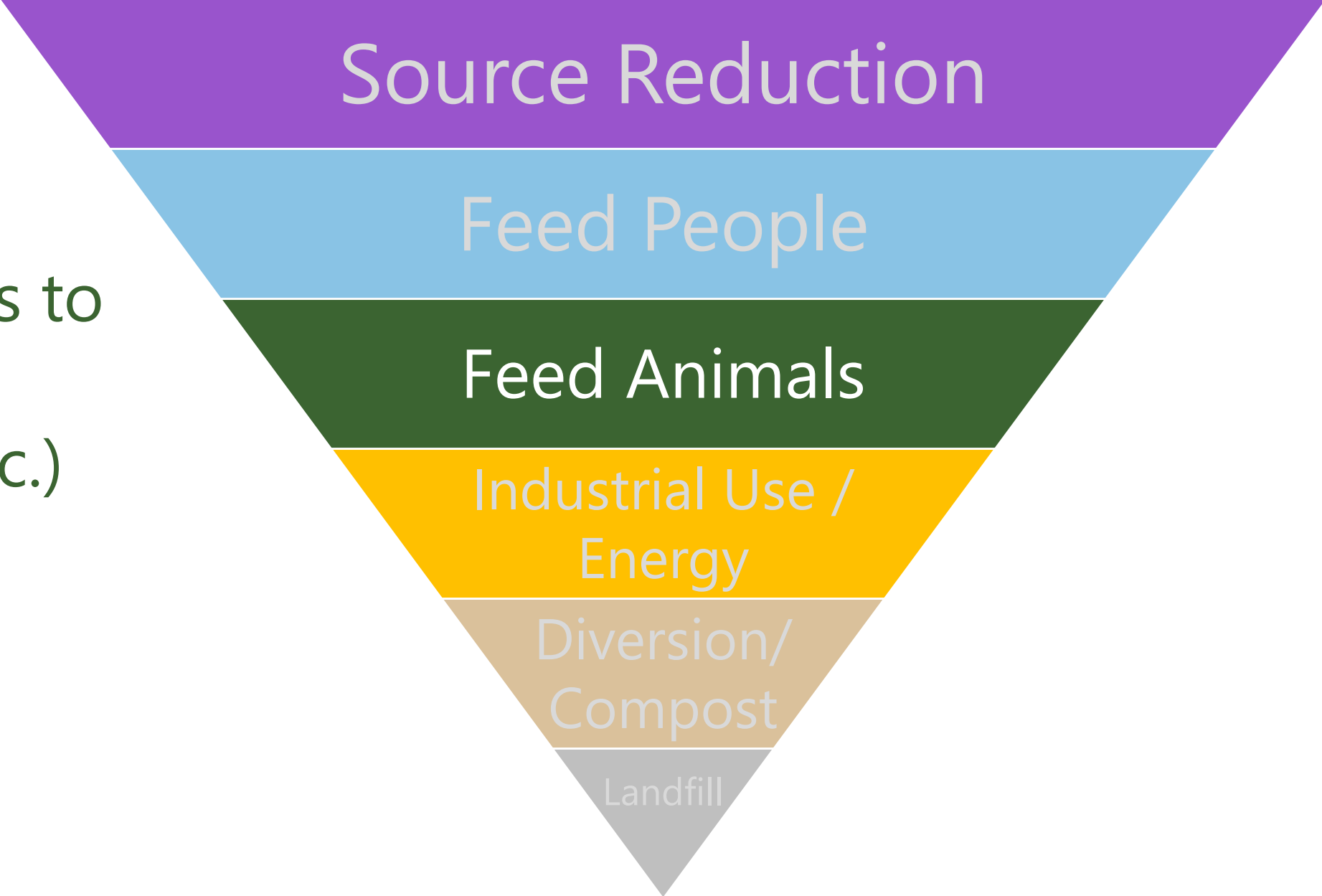
Which is easier to donate?



An Easy Way to Expand Outreach



Feeding Animals

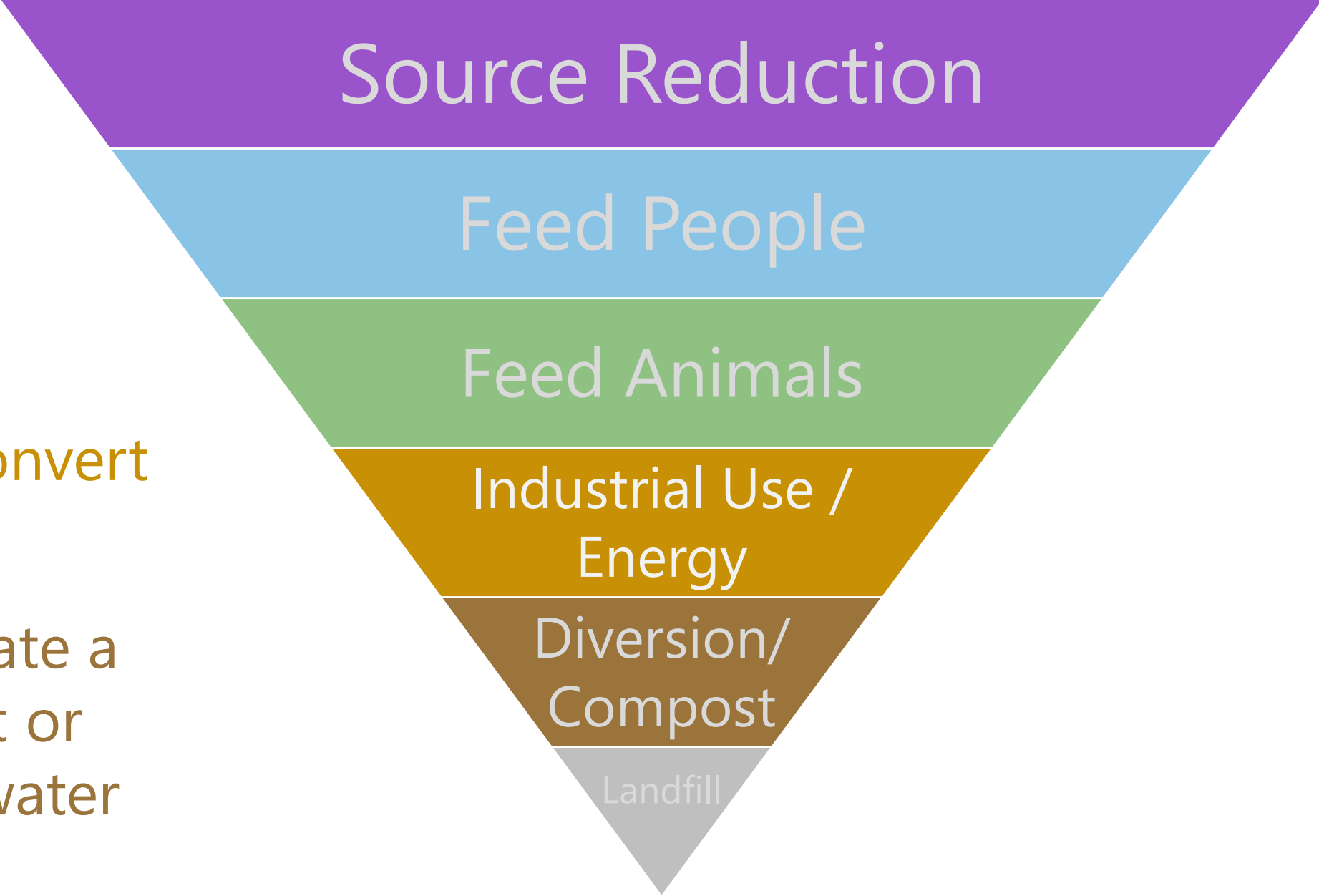


Use food scraps to
feed animals
(farms, zoos, etc.)



Relationships are
key!

Industrial Use & Diversion



Source Reduction

Feed People

Feed Animals

Industrial Use /
Energy

Diversion/
Compost

Landfill

Recycle oil or convert
food to energy

Use food to create a
soil amendment or
turns it to greywater



Diversion: Be Willing to Experiment

- The journey continues
- Trial runs of equipment
 - Digesters
 - Dehydrators
- Continuous improvement
 - Composting
 - And more!

Be Willing to Experiment

**Successful
breakdown:**
Cups and lids

NOT broken down:
K-cup pod rings

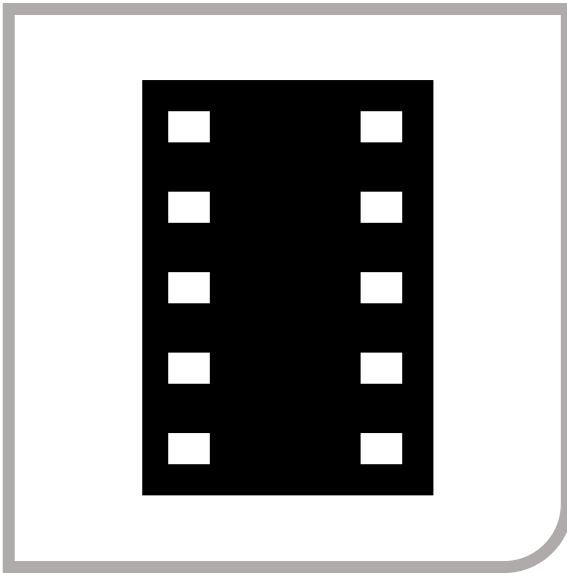
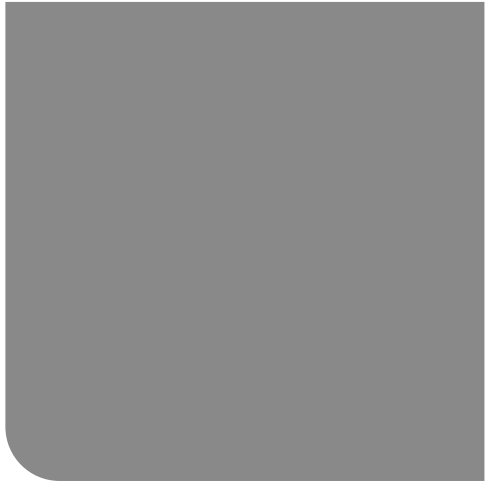
Compostable bags
(in fact, the word
'compostable' was
still visible!)



Mixed results:
Coffee and soup
cups did not break
down well, leaving
large pieces with
plastic or wax lining

Spoons broken into
small pieces

Lids and sleeves
breakdown successful



Learn more about this project

- White paper coming soon
- Video highlight reel
- Reach out



Reaching beyond the borders of the building

Video will reach audiences around the world!

Thank you!



Joan Plisko, PhD
www.pliskosolutions.com
joan@pliskosolutions.com



ASTRAPTO

Dr. Aurora Dawn Benton
www.astrapto.com
aurora@astrapto.com