

STAKEHOLDERS AND STUDIES: BUILDING UP TO PUBLIC/PRIVATE PARTNERSHIPS

Anna Lynott
Michigan Recycling Coalition Conference
May 15, 2019

MISSING IN ACTION TODAY



Kyle O'Keefe
Director of Innovation and Programs
SWACO

ABOUT RRS

Since 1986 serving industry/governments/non-profits

- Plan and implement materials management and zero waste solutions
- Facilitate recovery value chain collaboration to increase commodity recovery for industry and municipalities
- Analyze packaging recyclability and compostability

- Business case and net system cost analysis
- End market and recovery systems development for circular economies
- Adapt MRF systems & composting facilities with new technologies to process today's recyclables
- Develop and implement multi-stakeholder communications and outreach



recycle.com



WHO IS SWACO?



MORE ABOUT SWACO

SWACO Role	Program
SWACO funds and operates	Administration Drop-off Program Education Market Development
SWACO provides contracting assistance for	Curbside Collection
SWACO funds through contracts to private partners to operate	Yard Waste Management HHW Management Dump Cleanup Litter Collection





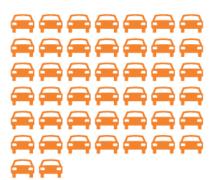




22 million

GALLONS OF GASOLINE

enough to fuel 44k vehicles for a year





41 billion

GALLONS OF WATER

more than the amount of water that goes over Niagara Falls in a month

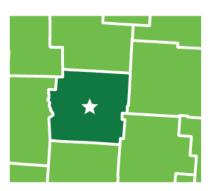




160,000

ACRES OF LAND

approximately half the size of Franklin County



FOOD WASTE IN THE SUPPLY CHAIN







62.5 MILLION TONS

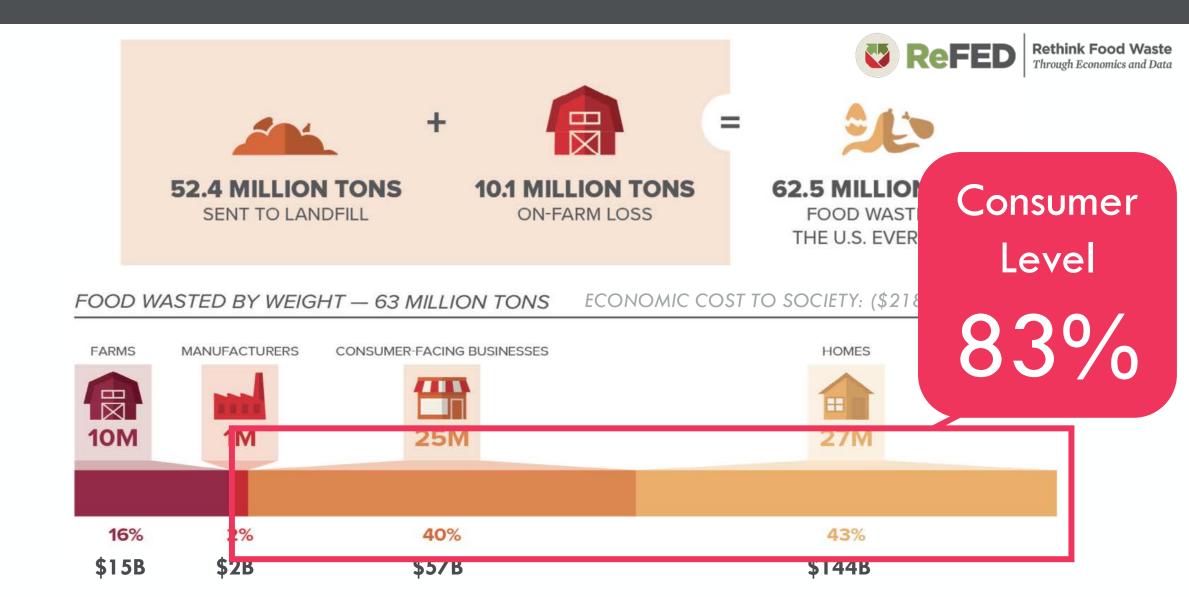
FOOD WASTED IN THE U.S. EVERY YEAR

FOOD WASTED BY WEIGHT - 63 MILLION TONS

ECONOMIC COST TO SOCIETY: (\$218 billion)



FOOD WASTE IN THE SUPPLY CHAIN





SWACO'S APPROACH

Food Waste Action Plan Development

Centralized Composting Feasibility
 Study



Local Government



Community
Groups



Agencies



Schools

Common Agenda & Goals

Collective Impact

Continuous Communications

Backbone

Organization

Shared Measurement System

Mutually Reinforcing Activities



Businesses



Industry



Associations





FOOD WASTE INITIATIVE

www.cofwi.org

PARTICIPATING STAKEHOLDERS





















COLUMBUS

CITY SCHOOLS

























Food Waste Collaborative











Kick-off Session 9/20/18

Working Session #1 - 10/4/18

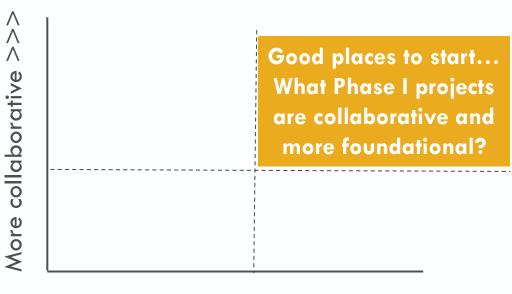
Working Session #2 - 10/30/18

Working Session #3 - 11/14/18

20 potential Phase I solutions

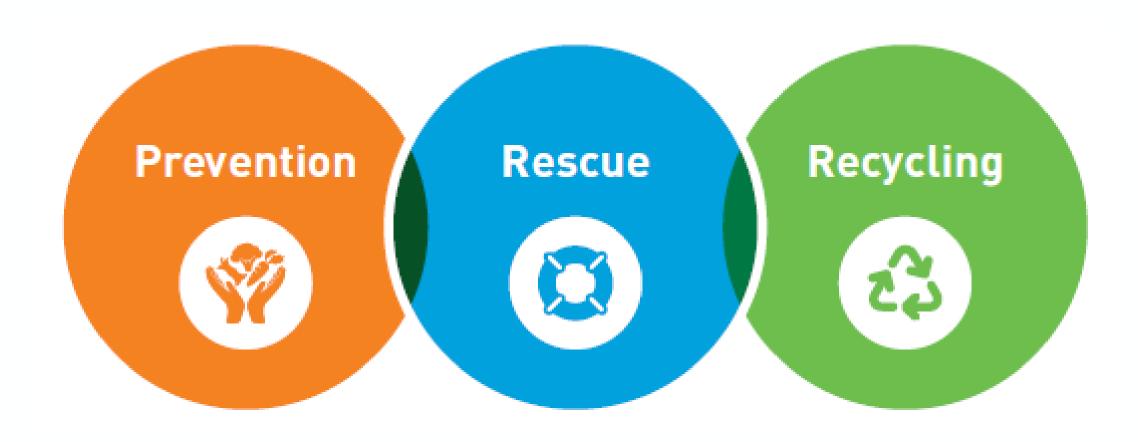
9 potential Phase I projects

Best places to start



More foundational projects>>>

WHAT SOLUTIONS EMERGED?



Proposed Solutions – Prevention Residential Commercial Consumer In-home Awareness/Education Employee Training/Education Campaign Campaign School Curriculum & Program Campaign Advocate for Improved Date Labeling Standards Grocery & Retail Point of Sale Consumer Messaging Campaign

Proposed Solutions - Rescue

Commercial

Increased Capacity for Rescue Outlets

Food Rescue Promotion & Training

Support Sharing Tables and Food Rescue in Schools

Value-add Products from Rescued Foods

Advocate for Increased Tax Deduction Benefits for Donating Food

Proposed Solutions –	Recycling
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Residential	Commercial
Food Waste Composting	Facility Feasibility Study
Catalyze Smart Growth of Community Food Waste Drop-off Programs	Promote Existing Programs & Services
Evaluate and Pilot Residential Curbside Collection of Source Separated Organics	Promote and Pilot Food Waste Collection with Schools
Promotion of Decentralized Food Waste Recycling	Businesses Incentives and Resources for Diversion

Increase Regional Competition and Capacity for Food Waste Recycling Solutions

Support Innovation and Entrepreneurs to Develop and Enhance Food Waste Prevention, Rescue, and Recycling Solutions

BEST PLACES TO START

Promoting Existing Services



School Curriculum and Resources



Consumer Messaging



PROMOTING EXISTING RESOURCES



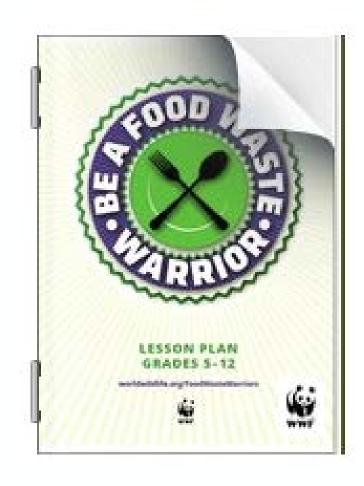
CENTRAL OHIO FOOD WASTE INITIATIVE

WWW.COFWI.ORG

SCHOOL CURRICULUM AND RESOURCES











CONSUMER MESSAGING







FRANKLINTON FARMS — COMMUNITY COMPOSTING



HILLIARD CITY SCHOOLS — COMPOSTING PROGRAM





FEASIBILITY STUDY

FEASIBILITY STUDY

Identify Modeling facility generation types that Size of and Setting up work with **Funding** facility potential for success the capture materials rates available

KEYS FOR SUCCESSFUL MUNICIPAL PROGRAMS



MODELING ORGANIC WASTE

- Type/characteristics of organic waste to be collected
- Type of collection of organic waste
- Seasonal volume fluctuations
- User participation

GENERATION AND CAPTURE RATES

135,861 Waste 242,869

Capture Rate	Food Waste	Green Waste	Total
30%	40,758	72,861	113,619
60%	81,517	145,721	227,238
80%	108,689	194,295	302,984



RECOMMENDED FACILITY TYPES

- Open Windrow:
 - Least costly capital/operation
 - Passive aeration/mechanical turning
 - Least tolerant of FW < 10 15%
 - Most common facility in the US
- Aerated Static Pile
 - More costly capital/operation
 - Mechanical aeration/no turning
 - Highly tolerant of FW

FACILITY SIZING

Facility Type	Materials	Green Waste*	Food Waste **	Bulking Agent**	Total
Windrow	YW+Res FW	145,721	10,800	-	156,521
Aearate Static Pile	Comm. FW + MF FW	-	60,000	60,000	120,000
Total		145,721	70,800	60,000	276,522

^{*}Green waste recovery – 60%

^{**}Residential food waste recovery ~ 30%; Commercial food waste recovery ~ 60%

WINDROW FACILITY PARAMETERS

Facility Characteristics	Units	
Total Throughput - Tons	156,521	
Total Site Area - Acres	25	
Total Composting Pad Area - Acres	16	
Equipment - pieces	8	
Staff - FTE	6	
Total Marketed Material - CY	156,000	

ASP FACILITY PARAMETERS

Facility Characteristics	Units
Total Throughput (incl. 1:1 Bulking Agent) - Tons	120,000
Total Site Area - Acres	15
Total Building Area - SF	15,600
Equipment - pieces	6
Staff - FTE	5
Total Marketed Material - CY	147,692

FEASIBILITY STUDY

Identify Modeling facility generation types that Size of and Setting up work with **Funding** facility potential for success the capture materials rates available

SPECTRUM OF OPTIONS



- Open Market Version –
 Free for All
 - Create organics diversion regulation
 - Define a siting rubric (consistent with OH law)
 - Let the "Invisible Hand" take care of it



- Supportive Policy for Organics, selected facility RFP
 - Greenwaste + Residential FW – Windrow
 - Commercial and MF FW
 ASP
 - Community Composting/Backyard Composting



- Public Ownership
 - Greenwaste + Residential FW – Windrow
 - Commercial and MF FW ASP
 - Community Composting/Backyard Composting

KEYS FOR SUCCESSFUL MUNICIPAL PROGRAMS

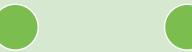


LOOKING FORWARD

2019 **Food Waste** Grant **Programs** Underway

Awareness Campaign **Development** May-August

Reconvene COFWI **Partners Define next** phase August













Food Waste Action Plan Launch May 15th

Composting **Facility Feasibility** Study Complete July

Complete **School Food Waste Pilot**

December

SUMMARY

- Leverage the resources and existing efforts in your community to tackle food waste
- Explore the 3 R's for a holistic approach
- Seek best places to start
- Consider all the factors that will impact feasibility



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