

# Pre-Summit Workshop

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## **Conquering Food Waste: An Interactive Dialogue with Thought Leaders**

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# Goals & Flow

## Goals

- Shared understanding of where and why food loss and waste occurs
- Ideas for solutions & a plan for action



## Flow

**Welcome & Overview**

**1. Assessing Waste**

**2. Developing Business Case**

**3. Taking Action –own operations**

**4. Taking Action – up/down chain**

**Closing**



# **Overview**

**the statistics**

# **Reducing food waste creates economic and societal value.**

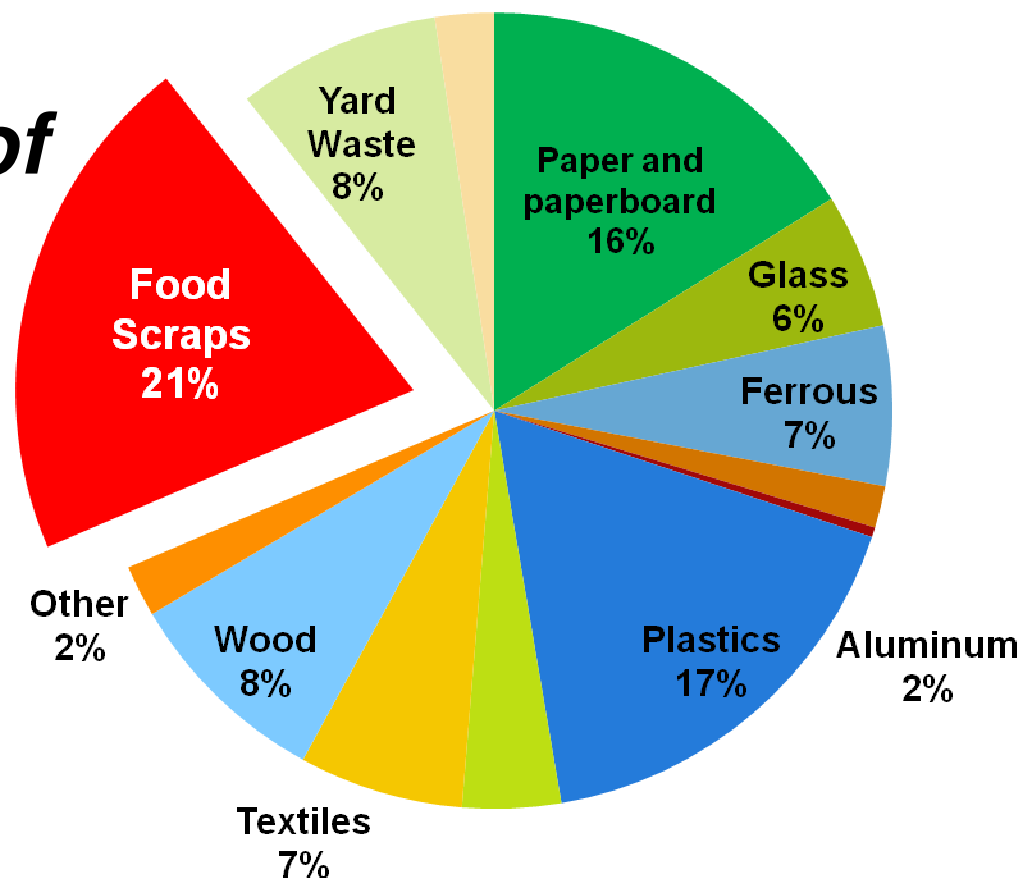
**Better using the food we produce:**

- 1. saves companies money**
- 2. generates revenue**
- 3. feeds the needy**
- 4. reduces GHGs**
- 5. eases demand for natural resources**

# Why the interest in food waste....?

***Food scraps  
exceed any  
other kind of  
U.S. waste***

2009 MSW discard data from EPA



> **67 billion pounds\***

(amount per capita has doubled since 1974)



= 4 meals/day  
for a year

~ 47 million  
Americans in poverty



\* Food disposed in the US in 2010

# ...we're literally throwing money away

## SOCIETY

- Social and economic cost of hunger and food insecurity in the US in 2010 = \$167.5 billion (+ fed. nutrition programs @ \$94 bill/yr) = **> \$260 billion**

## HOUSEHOLDS

- 25% of food brought into homes tossed - ~ **\$2,200 annually**

## BUSINESSES

- Loss in terms of **food that is not sold**
- Cost of waste **removal fees**





# Cost of food waste sent to landfill is significant

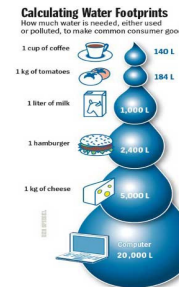
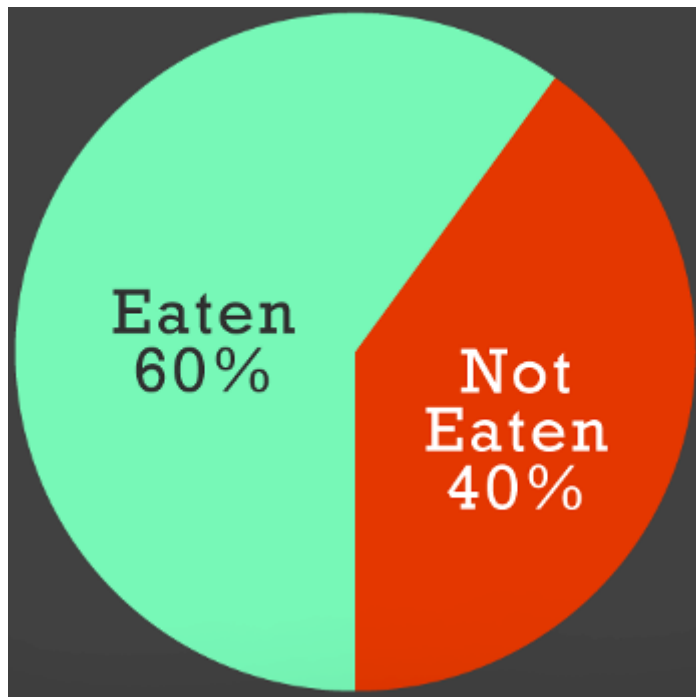
Nationwide tipping costs for manufacturing, retail, and wholesale sectors are an estimated \$101 million.

	Estimated amount disposed, entire US	Estimated tipping cost, entire US	Average cost per survey respondent
Manufacturing	2.4 billion pounds	\$59 million*	\$750,000
Retail/Wholesale	1.7 billion pounds	\$42 million*	\$960,000
<i>Combined Sectors</i>	4.1 billion pounds	\$101 million*	--

•Based on a 2012 national average tipping cost for the largest public and private landfills of \$49.27 per ton (4.9c/pound), from Waste Recycling News  
Source: FWRA, Analysis of US Food Waste Among Food Manufacturers, Retailers and Wholesalers, 2011 data



# ...we're wasting resources (energy and water ++)



~25% of ag's  
global water  
use



4% of  
U.S. oil

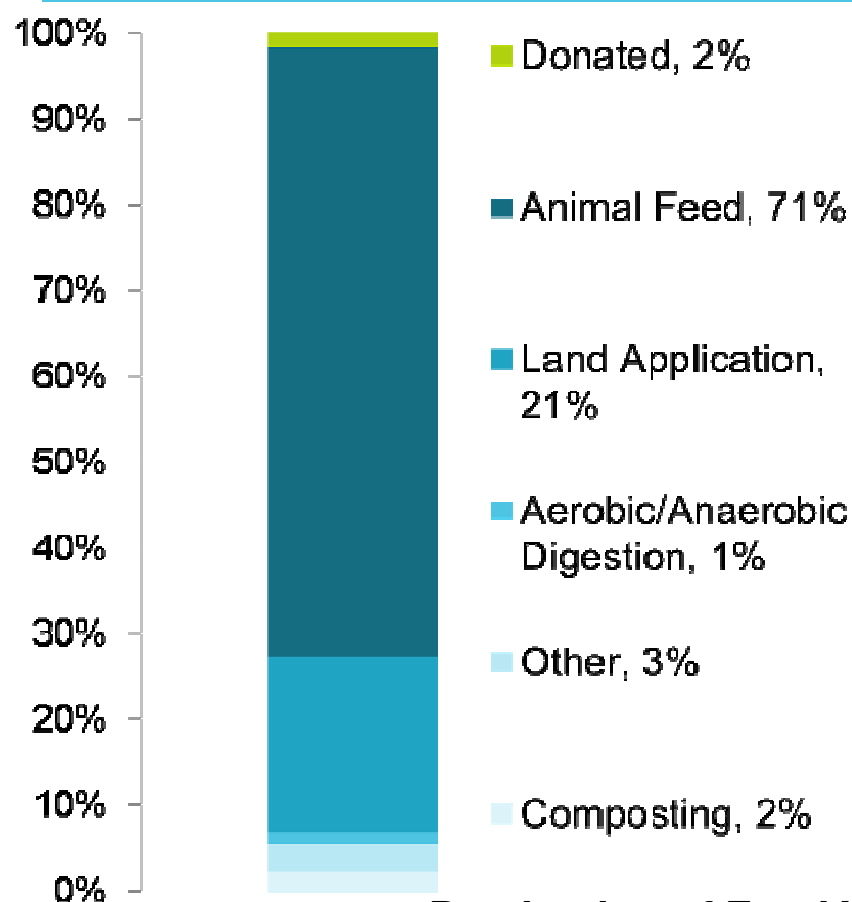


~15% of  
U.S.  
methane

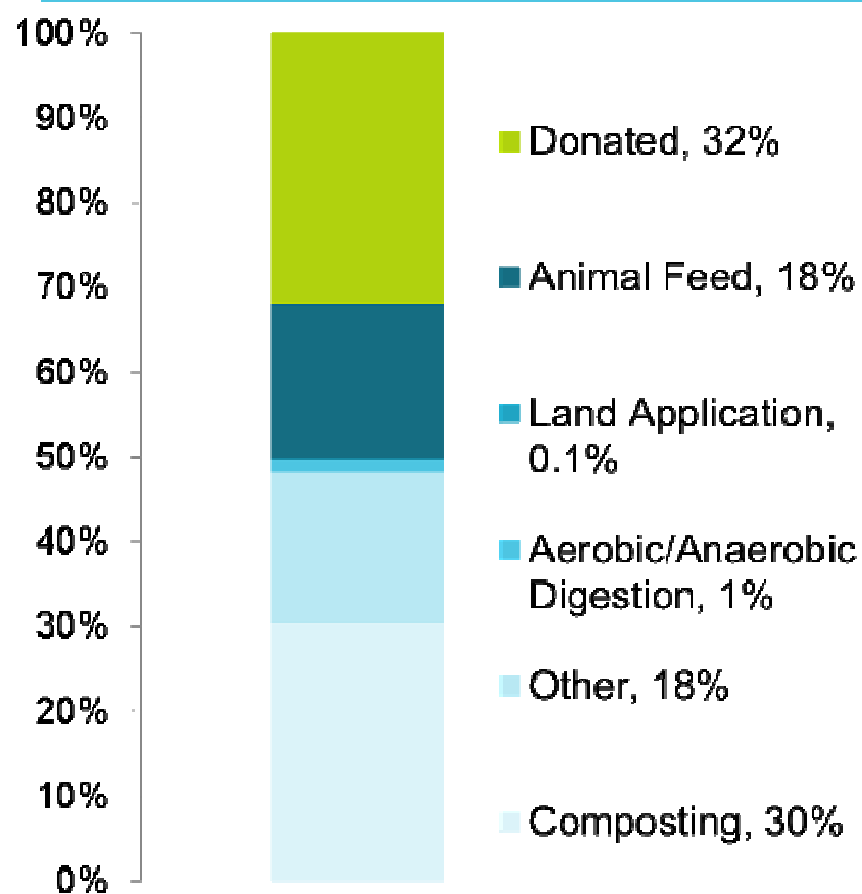
Land use  
Pesticide use  
Water quality  
GHG emissions

# Different operations = diverting in different ways

*Manufacturing Sector (n=11)*



*Retail Sector (n=9)*



**Destination of Food Waste Diverted from Landfill**  
(As a percentage of total food waste diverted)

*Source: FWRA, Analysis of US Food Waste  
Among Food Manufacturers, Retailers and  
Wholesalers, 2011 data*

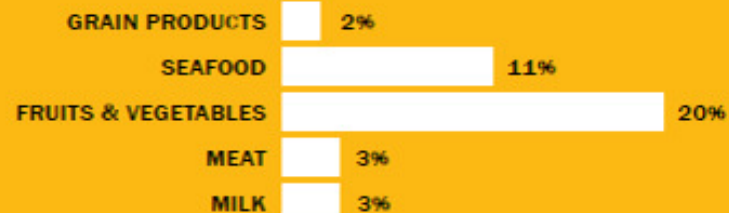


# **Overview**

**the drivers**



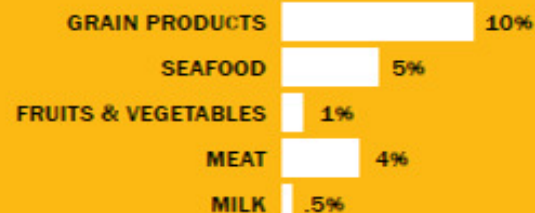
01.

**PRODUCTION  
LOSSES**

02.

**POSTHARVEST,  
HANDLING AND  
STORAGE LOSSES**

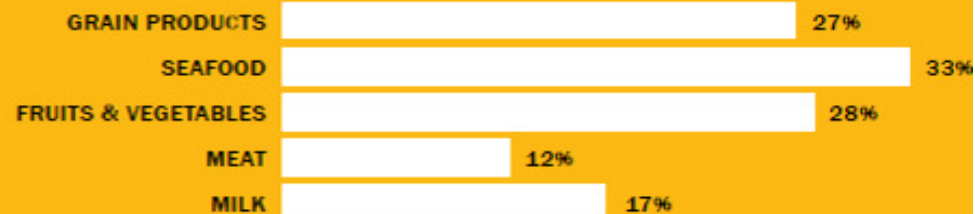
03.

**PROCESSING  
AND PACKAGING  
LOSSES**

04.

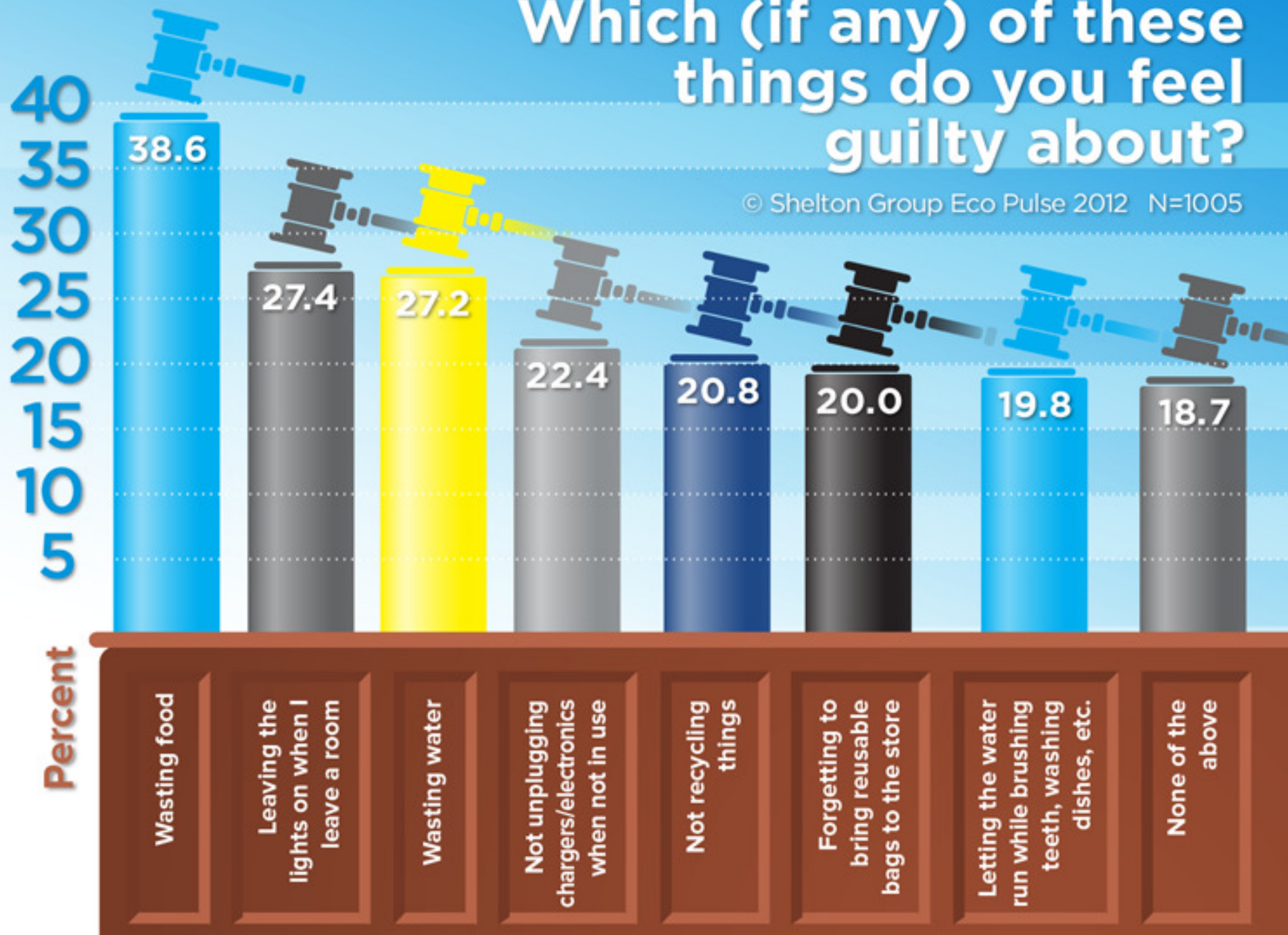
**DISTRUBUTION  
AND RETAIL  
LOSSES**

05.

**CONSUMER  
LOSSES\*\*****\*\*Includes out-of-home consumption**

# Which (if any) of these things do you feel guilty about?

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# **Overview**

**action being taken**



# So, what are we doing about it....?





# **FWRA goals**

## **REDUCE**

**Food loss that can be prevented**

## **REUSE**

**Divert good food to food banks  
before it is lost**

## **RECYCLE**

**Unavoidable food waste that can't  
be reused (compost, animals, energy)**

# FWRA strategy



**Assess  
State of Industry,  
Opportunities  
Barriers**



**Identify and Share  
Best Practices  
And Emerging  
Solutions**



**Work With All  
Stakeholders on  
Solutions**

# Initiatives to move down the pyramid

## Food Waste Recovery Hierarchy

