

# phood

Automated Waste Tracking & Analytics

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## Using AI to Reduce Food Waste: Victories & Challenges



# Agenda

- Introduction
- Origin of AI & AI Today
- Food Waste: Human Problem
- Leveraging AI to Fight Food Waste
- Phood Analysis & Impact
- Victories & Challenges

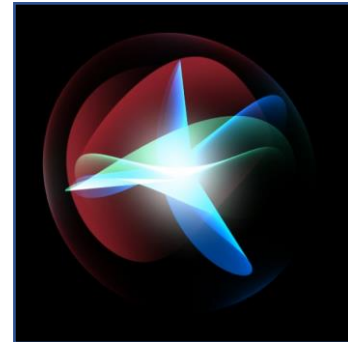
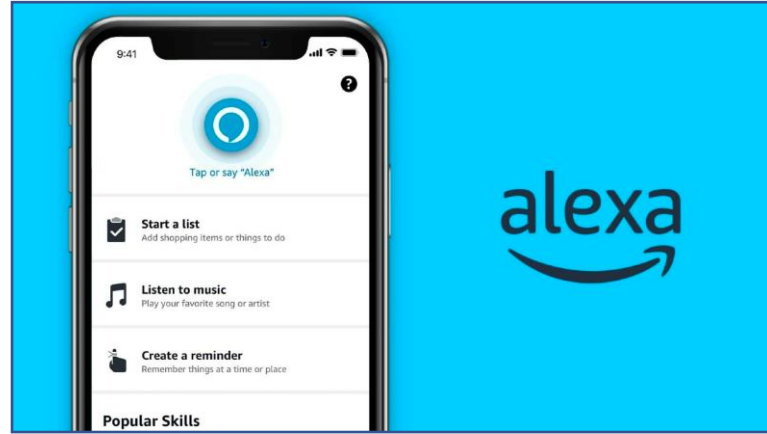
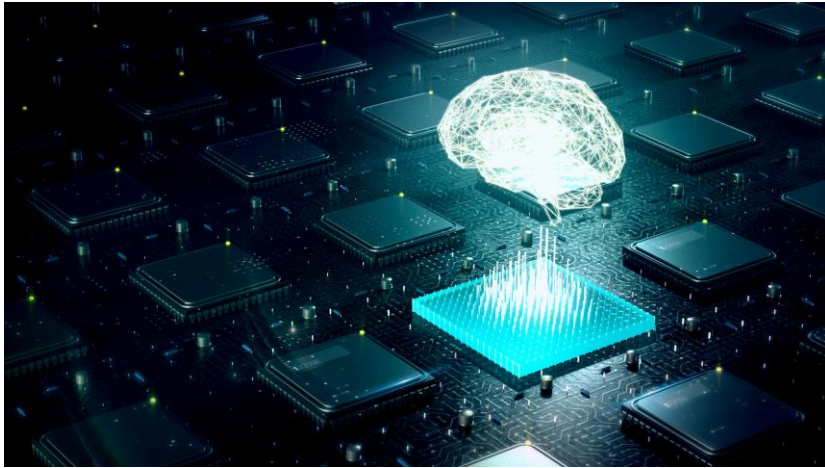


# Artificial Intelligence

“Can machines think?”

- Alan Turing (1950)

# Artificial Intelligence



# Food Waste: Human Problem



# Food Waste Today: Across the Supply Chain



FARMS

17M Tons  
21% | \$14B



MANUFACTURING

11M Tons  
14% | \$35B



CONSUMER-FACING BUSINESSES

23M Tons  
28% | \$201B



HOMES

30M Tons  
37% | \$158B

## CONSUMER-FACING BUSINESSES INCLUDE:



**RETAIL** 10M TONS | 43% | \$37B

**FULL SERVICE RESTAURANTS** 5M TONS | 22% | \$87B

**LIMITED SERVICE RESTAURANTS** 3M TONS | 13% | \$26B

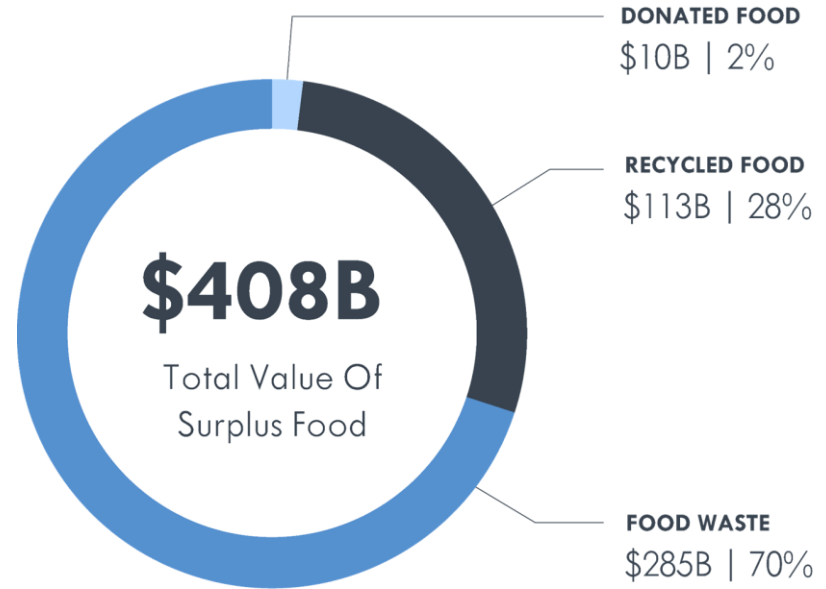
**OTHER FOODSERVICE\*** 4M TONS | 17% | \$39B

**OTHER** 1M TONS | 4% | \$12B

\*Other Foodservice Includes Healthcare, Assisted Living, Military, and Other

SOURCE: REFED

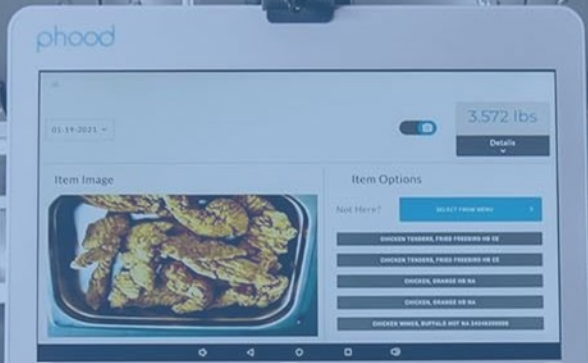
# AI Across the Supply Chain



SOURCE: REFED



phood



# EPA Food Recovery Hierarchy

**SOURCE REDUCTION  
IS RANKED THE  
#1 SOLUTION**

**ECONOMICALLY**



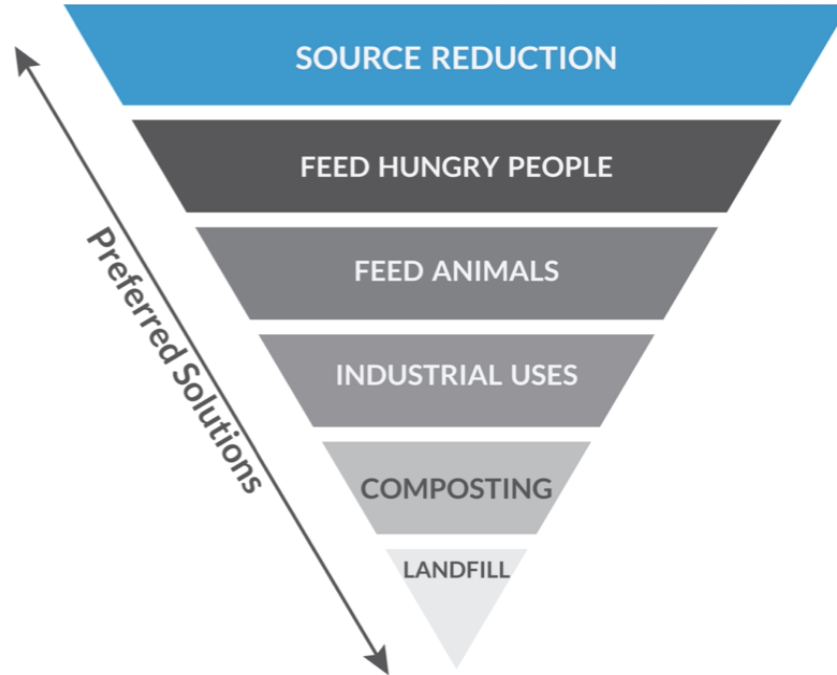
**ENVIRONMENTALLY**



**& SOCIALLY**



## Food Recovery Hierarchy



# How it works



**Track**



**Review**



**Reduce**



**Earn**

# Phood X





hood

### Pan

2.072 lbs

CANCEL

Hot Bar - 4 inch  
Half pan

Salad Bar - 2  
inch 1/6th pan

Stanton - 2 Inch  
Half Pan

HotBar Box  
(Large)

ColdBar  
Container

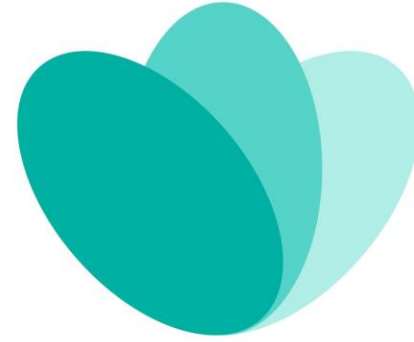


ADD  
SERVE

DISCARD  
SHRINK



# AI in Consumer-Facing Food Businesses



**Too Good To Go**

SHELF  ENGINE

The Shelf Engine logo consists of a network of black dots connected by thin lines, forming a shape that resembles a stylized leaf or a cluster of data points.

 **Flashfood<sup>®</sup>**

The Flashfood logo features a blue circle containing a white stylized leaf or flame shape, followed by the word "Flashfood" in a bold, blue, sans-serif font with a registered trademark symbol.

# Challenges



**Quantifying  
waste**



**Unique business  
models**



**Knowledge  
gaps**



**Labor**

# Victories

**1.**

Clear data

**2.**

Food Waste  
reduction

**3.**

Greenhouse gas  
emission  
reduction

**4.**

Increase donation  
and diversion



# In Retail



**47%**

Waste Reduction



**94%**

Labor Reduction



**+10%**

Individual Item  
Profitability

# In Commercial Kitchens



**42%**

Waste Reduction



**\$33k**

Cost Savings



**16,000 lbs**

CO2 prevented from  
entering the atmosphere

A man wearing a green long-sleeved shirt and a light blue face mask is seen from the side, focused on packing groceries into several brown paper bags. He is standing in a food pantry or grocery store, with shelves stocked with various food items and boxes in the background. A window with red curtains is visible behind him. The scene is dimly lit, with a soft blue tint. The text "You Can't Manage What you Can't Measure" is overlaid in white, bold font across the center of the image.

**You Can't Manage What you Can't Measure**



**Thank you!**

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# Product Mix Forecasting

Labels	Waste Dollars	Sold	Waste % Sales
Scrambled Eggs	\$478.58	337.89	22.03%
Maple Dry Rub Bacon	\$432.17	140.66	17.15%
Macaroni & Cheese	\$407.95	914.23	18.05%
Steamed Broccoli	\$207.08	372.31	17.94%
Chicken Cacciatore	\$141.01	184.73	31.28%
Ham & Cheese Omelet	\$139.43	145.82	38.71%
American Chop Suey	\$130.08	139.45	37.31%
Buffalo Chicken Wings	\$129.48	327.81	15.37%
Chicken Tenders	\$125.99	444.11	6.14%



## OBSCESS ABOUT YOUR CUSTOMERS

- Gain insight into your product mix
- Utilize per-item movement to understand menu movement
- Leverage sell rates to inform product selection and provide enticing menu options for your customers
- Eliminate low-moving and high-waste items from your mix
- Accurately plan future menus with historical data