# Beyond The Landfill



Laying The Groundwork for Food Waste Reduction in Sterling Heights, MI

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Presented by Shwetha Govindan









### The Team



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# Up to 40% of our food supply is wasted

**2.4 million tons** of food waste were recorded in the state of Michigan in 2022

That is equivalent to **4.57 billion** unsold or uneaten meals

Food Insecurity **Climate Change** 

When food decomposes in a landfill without Oxygen, it produces Methane (CH4).

Over the first 20 years after its release, methane is more than **80 times** more potent than C02 in trapping heat.

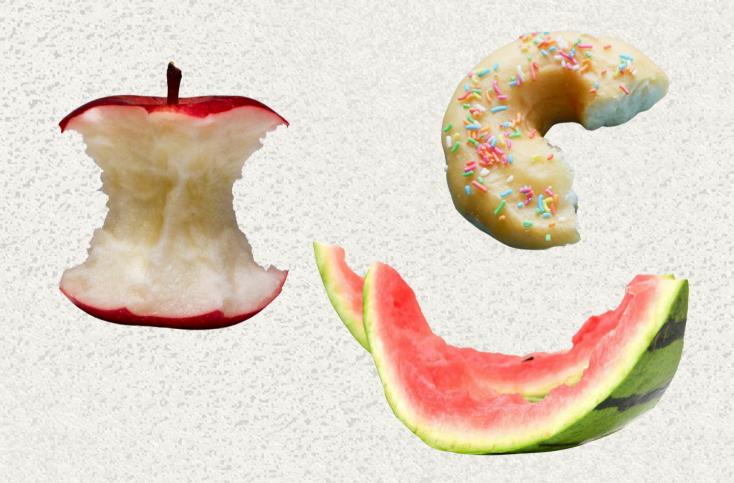
## 42 coal-fired power plants worth of carbon emissions per year



### A multifaceted issue

Food loss and waste is a complex global phenomenon.

At the local municipal level, it requires a multi-pronged approach to ensure a sustainable, effective program



1. PUBLIC AWARENESS

2. LOGISTICS

3. INFRASTRUCTURE

4. COLLABORATION

5. POLICY

## Sterling Heights, MI



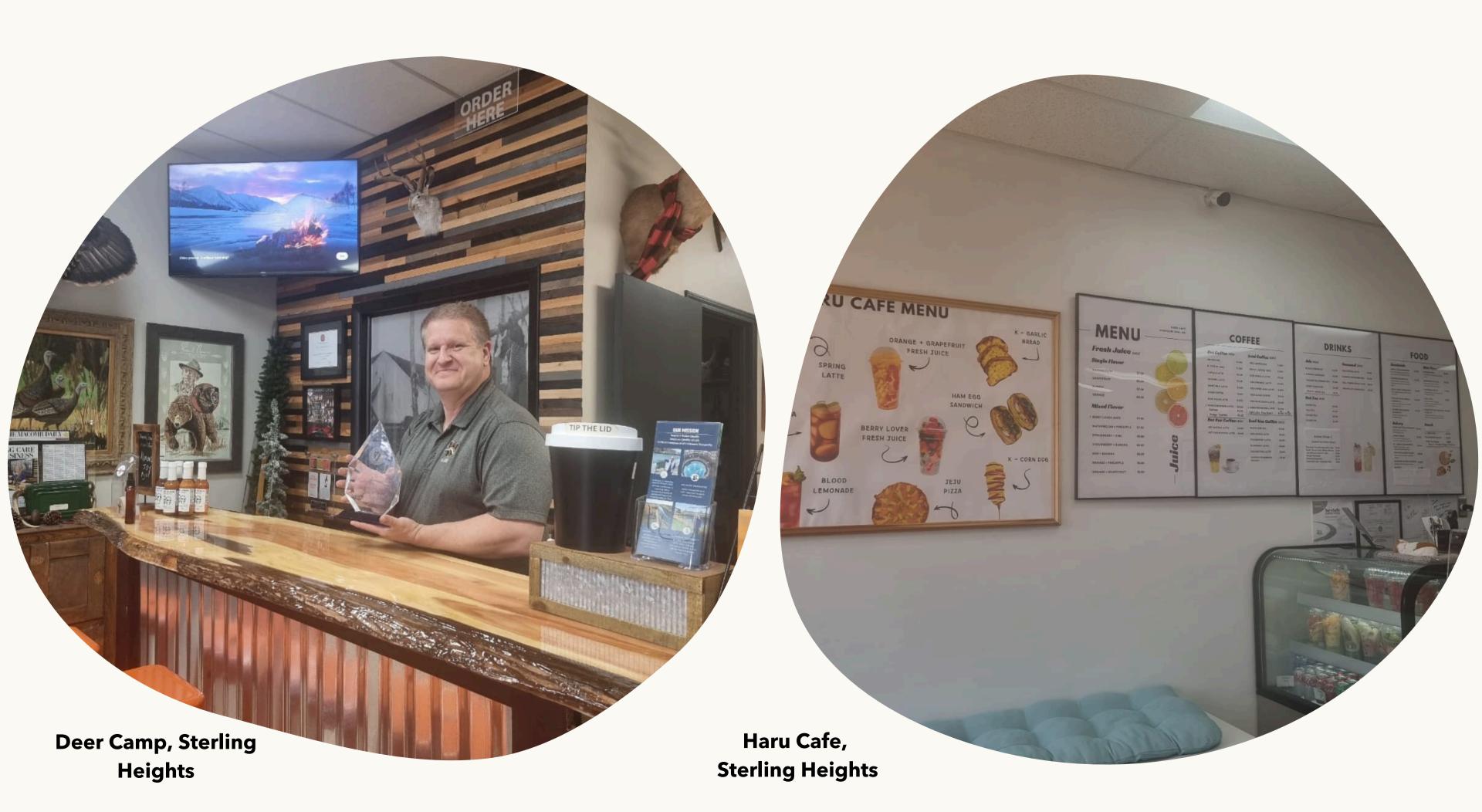


## Motivations



## Methods





## Solutions

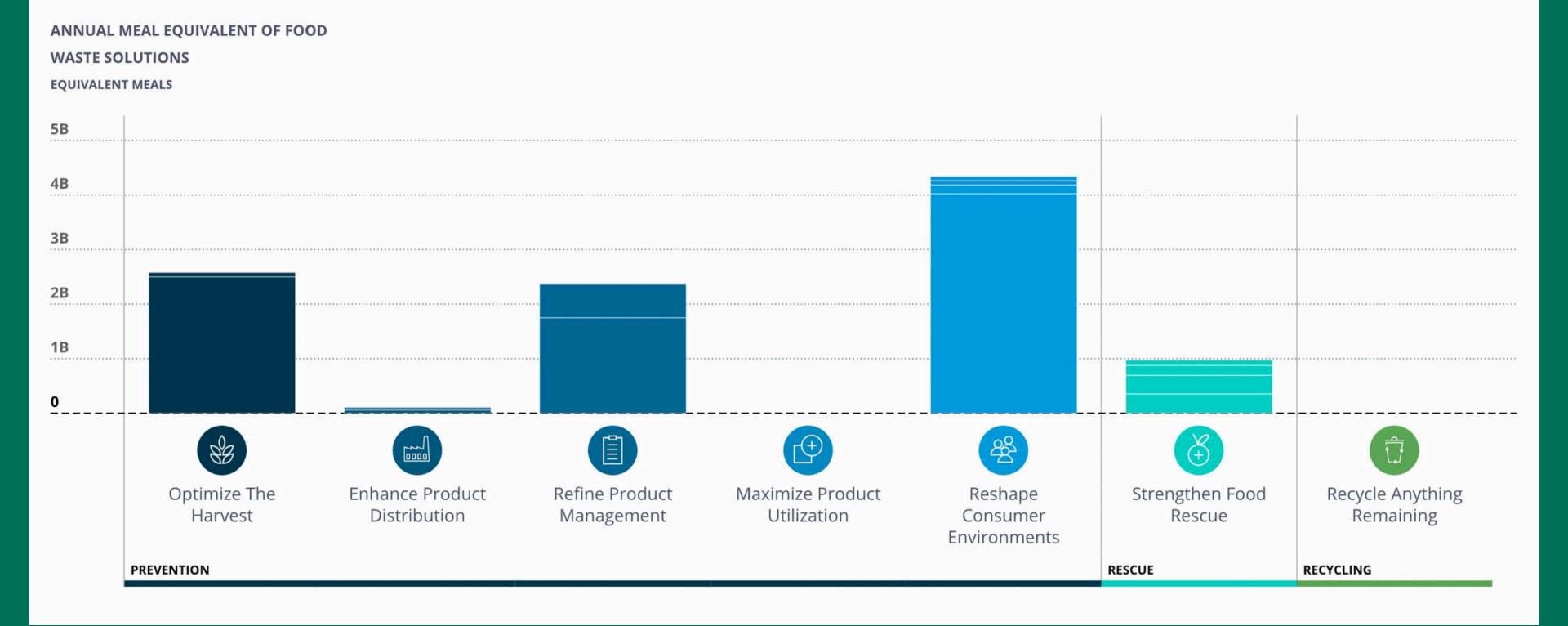
The EPA's Wasted Food Scale provides a data-driven roadmap, prioritizing food waste prevention and redirection to minimize environmental impact.

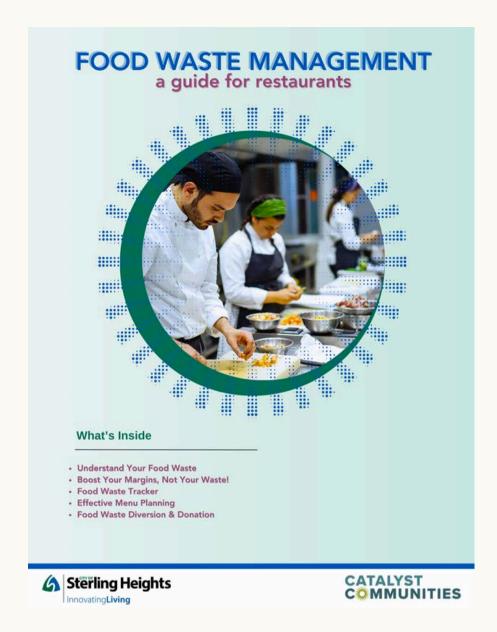
ReFED Insights point to reshaping consumer environments, product management and waste tracking as key solutions to food waste in the food service industry



**Wasted Food Scale** 

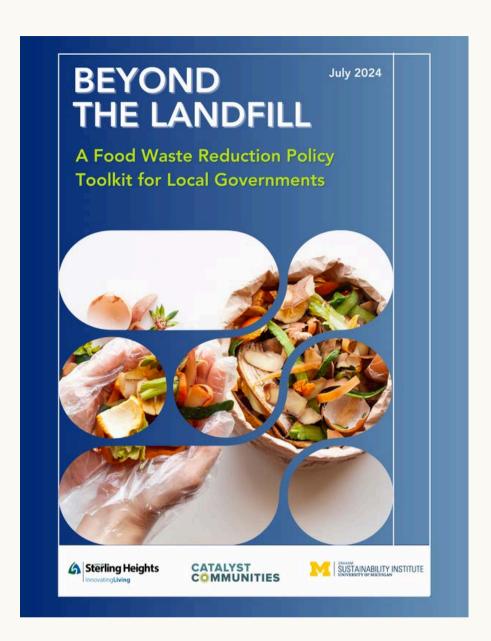
### **Explore solutions to food waste**





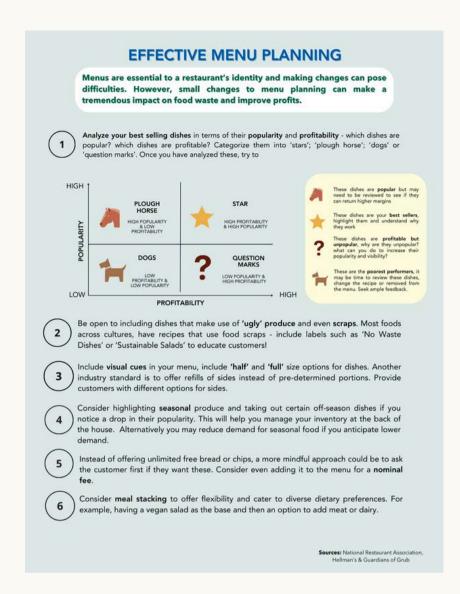
### **Educational Pamphlets**

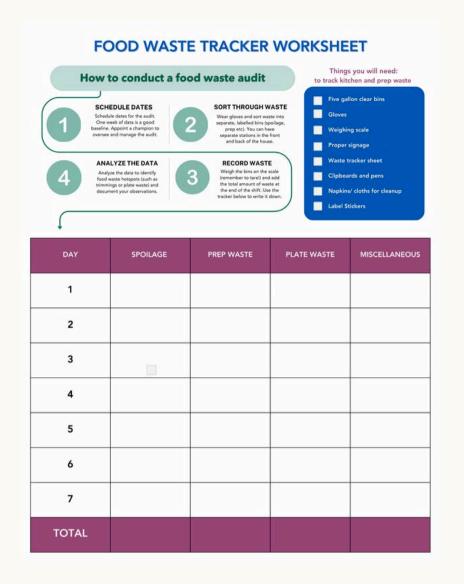
Educational material for business owners mostly small restaurants, cafeterias and grocery stores



### Policy Toolkit

Policy recommendations for City Council, case studies, funding and grant opportunities



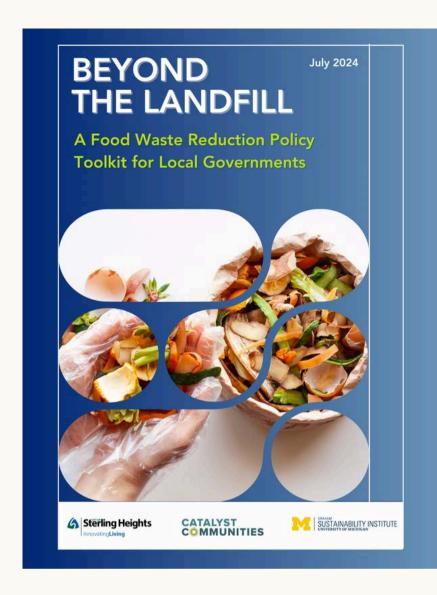




## Helping business owners take the first

step

- Tips for tracking food waste
- Information on dates and labels
- Effective menu planning
- Other best practices



### Setting up a committee

To effectively address food waste, a comprehensive understanding of the issue is essential. This involves reviewing existing plans, policies, and community feedback to identify opportunities and challenges. By bringing together diverse stakeholders, including city officials, environmental experts, business representatives, and community members, the committee can:

- Create a roadmap for reducing food waste and a comprehensive strategy
- · Allocate resources such as funding and staffing for the program
- Monitor progress
- Build community support
- Foster collaboration

### Model Orde

[Municipal Government] shall Create a central entity for coordinating municipal food waste efforts by hiring or designating a City Food Waste Reduction Coordinator ("Coordinator") and/or convening a cross-agency working group ("Coordinating Body").

While comprehensive measurement and baseline assessments are crucial for long-term food waste reduction strategies, cities need not wait for perfect data to initiate programs. A phased approach, starting with smaller-scale initiatives and gradually expanding, can yield significant results. By concurrently building the foundation for robust data collection, cities can optimize their efforts over time. This strategic balance ensures continuous progress towards a more sustainable food system.

### **Setting Targets**

Establishing a baseline for food waste is crucial but setting clear reduction targets is equally important. The U.S. Conference of Mayors has committed to halving food waste by 2030, providing a benchmark for cities like Sterling Heights. By publicly declaring a specific goal, the city can galvanize support and initiate targeted action.

 After establishing a broad food waste reduction goal, the city should review past plans, initiatives, and community feedback. The city can then gather input from various stakeholders including city officials, businesses, community leaders, local experts and civil society organizations. The following model order was developed by the NRDC to provide a template for the city.

### Model Order

"The [Municipal Government] hereby adopts a goal of reducing food waste in [Municipality] by 50 percent by 2030, consistent with the federal goal set in 2015."

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### **Rescue & Recovery**

Food rescue is fundamentally about repurposing surplus food. This involves recovering uneaten or unsold items from businesses and individuals and redirecting them to those in need. By salvaging food that would otherwise be wasted, food rescue organizations play a crucial role in extending the food supply chain and maximizing the value of agricultural resources. Another aspect of food rescue is the resale of surplus food at discounted prices by specialized solution providers. Rescue not only addresses food insecurity but also reduces the environmental impact associated with food production and disposal.

### Donation

Food donation is a critical component of effective food waste recovery. By diverting surplus food from landfills to those in need, cities can significantly reduce waste and address food insecurity. To optimize food donation efforts, local governments should invest in infrastructure, provide technical support for matching food donors with recipients, and streamline regulations. Food donation can occur at every stage of the supply chain, from farms to consumers, making it a versatile strategy for maximizing food utilization. According to the EPA's Excess Food Opportunities Map, Sterling Heights was marked as having fewer donation receiving organizations compared to neighboring cities pointing to a gap in the donation infrastructure. The following are some recommendations to strengthen food donation in the city.

### Recommendations:

- The city should educate business owners and residential households on donation liability laws.
   Information on federal laws for donation liability protection can be found as part of the <u>Bill Emerson Food Donation Act</u> and <u>State Law</u> on donation liability.
- Standardize donation regulations within the city for safe handling and donation of food. This can
  include clear language on eligibility criteria, transportation requirements and food safety
  standards. It could also include standardizing a permitting and licensing process for rescue
  organizations to comply with safety regulations.
- Establish or strengthen local food donation networks to connect food donors (grocery stores, restaurants, farms) with food recipients (food banks, shelters, community kitchens). The city can partner with platforms such as <u>FoodRecovery</u> which matches donors and receivers for free.
- Improve donation infrastructure by providing funding for the purchase of physical assets such as refrigerated vehicles for food recovery; improving cold storage infrastructure for storage of surplus food and; offer grants & technical assistance to recovery organizations

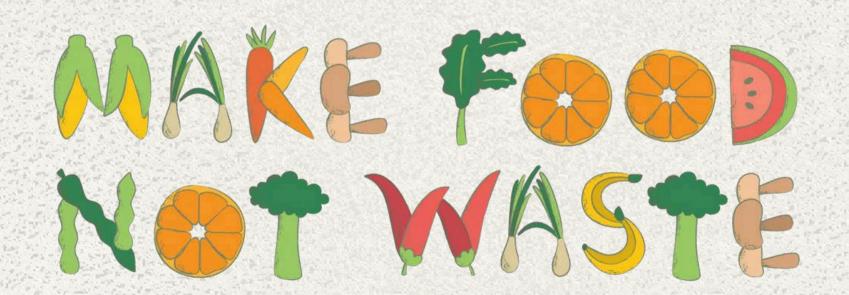
## Helping city hall take the first step

- Overview of local policies
- Links to funding sources
- Steps to measure food waste
- Other best practices

## Next Steps

- Setting Goals & Targets
- Collaboration with local food waste management organizations
- Outreach to retail and food service establishments in the form of workshops; education campaigns
- Pre-baseline studies and surveys





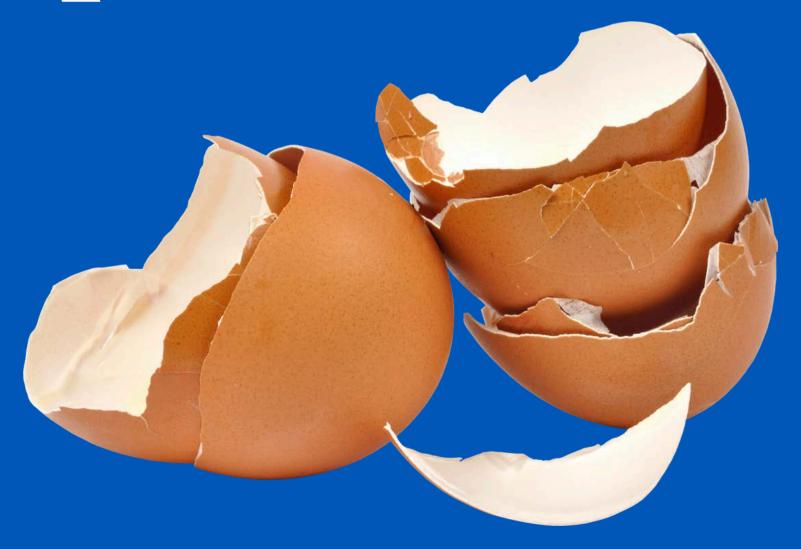
## Together, City Hall and foodservice businesses can tackle food waste

- Demonstrate the business case for food waste reduction
- Provide a call to action for environmental stewardship
- Foster a culture that enables a long term food waste program





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## Thankayou



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