

# Yet We Waste It Away...







#### On the Frontlines of the Food Waste Fight







## Reducing Food Waste Really Matters...

# SUSTAINABLE GALS DEVELOPMENT GALS





























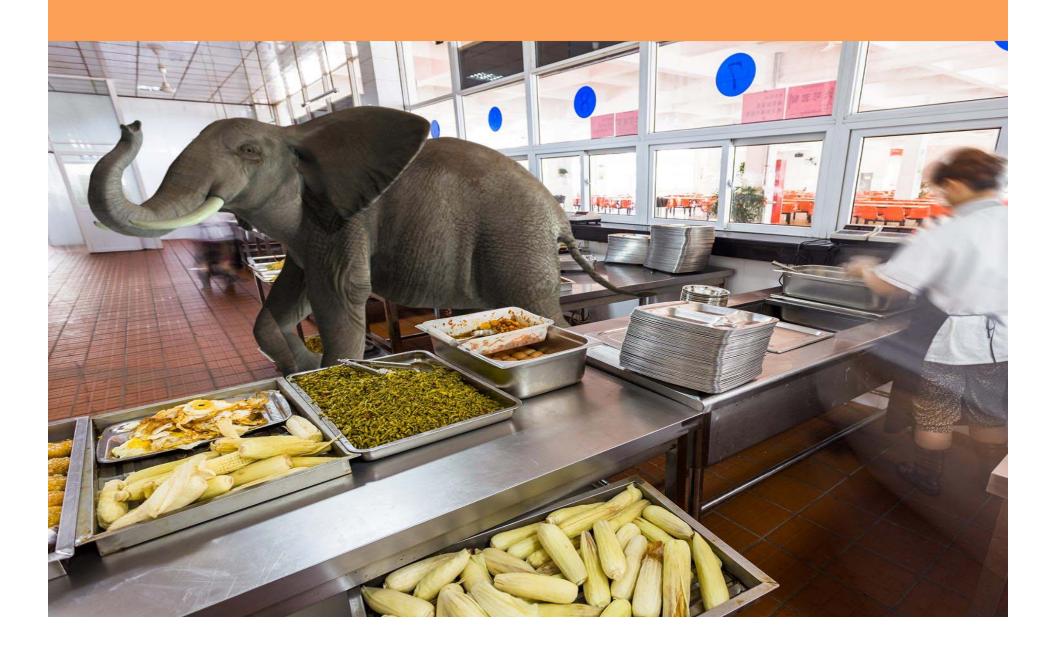








#### 14 years ago, we set out to solve a really big problem...



#### And We've Never Stopped Innovating













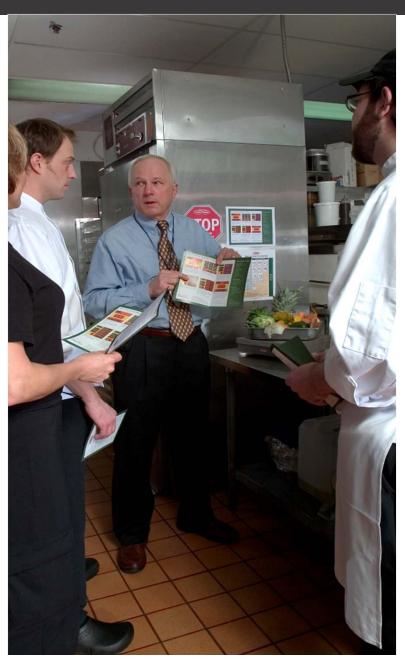


#### What We Learned Early On

To solve this, we were going to need to roll up our sleeves and get in the kitchen.

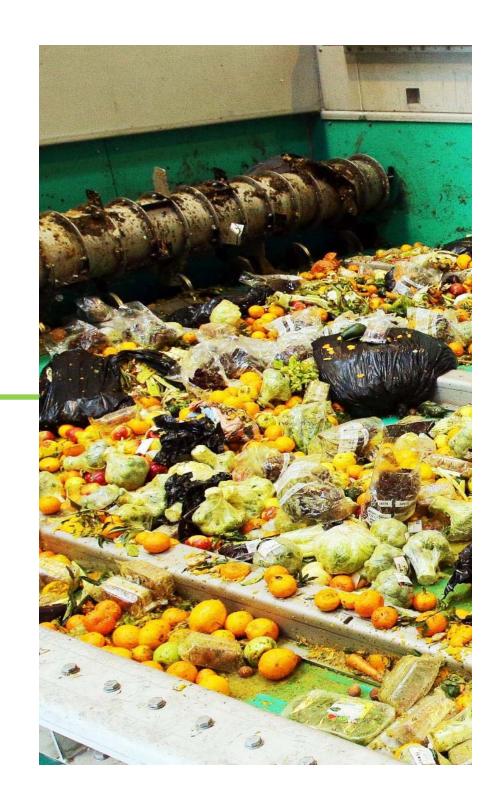
To reduce food waste you need to change behaviors, and

Front line workers are the change makers.



We learned about the impact of food waste on climate change.

# That was fuel on the fire.





14 years of measurable industry impact
Creators of food waste tracking & analytics category
Client partners in 20+ countries around the globe
Experience with over 1,000 customer deployments
Advocates against wasted food
Dedicated to food waste prevention





#### Two Key Food Waste Streams





"Kitchen Waste"

#### Post-Consumer Food Waste



"Plate Waste"

Controlled by kitchen staff



Controlled by customers

#### Pre-Consumer Food Waste

## HOW MUCH OF THIS PROBLEM STEMS FROM U.S. FOODSERVICE OPERATIONS?

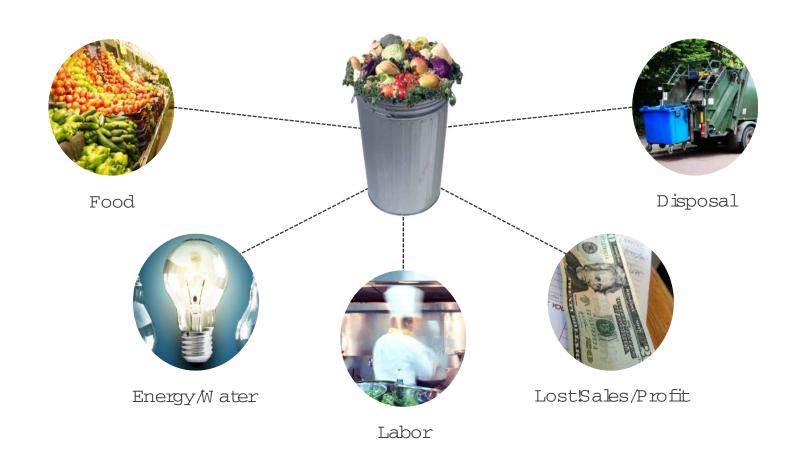
4-10% of food purchased is **THROWN OUT** before reaching a plate.



pre-consumer waste generated by the U.S. out-of-home restaurant and foodservice industry every year.

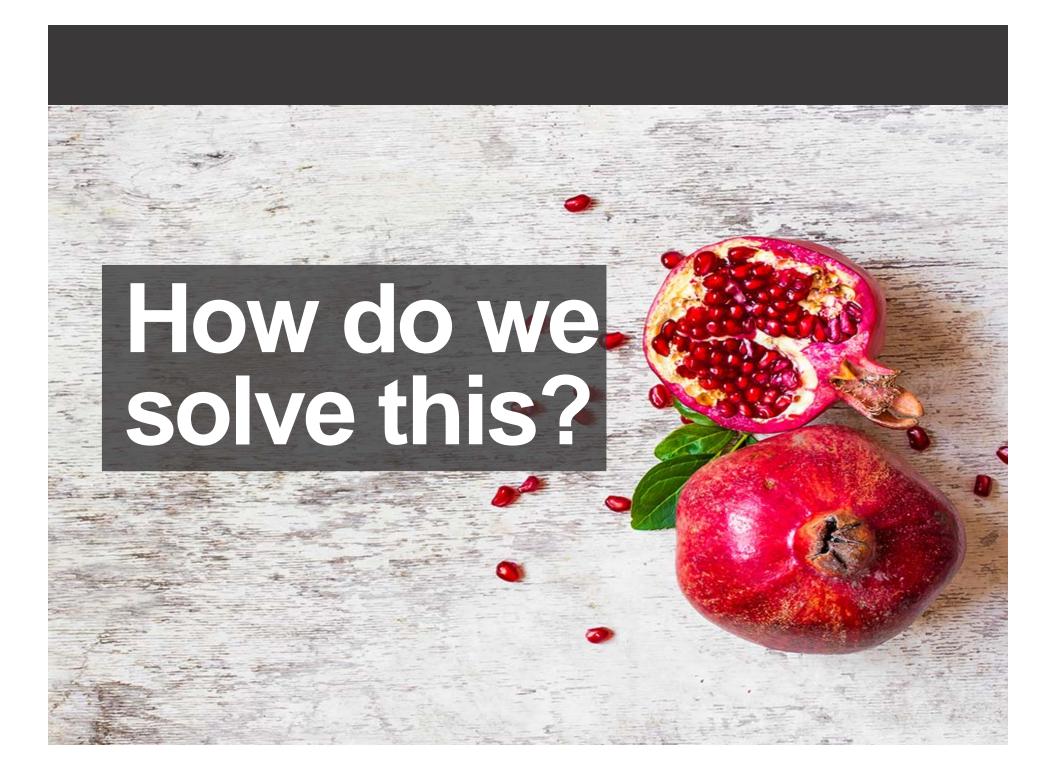
Pre-consumer waste is the kitchen waste that occurs before the food even reaches a guest, from **OVERPRODUCTION**, **SPOILAGE**, **EXPIRATION** and **TRIMMINGS**. It's within the control of the foodservice operator and can be prevented!

# Cost of Pre-Consumer Food Waste: 5 payments = 0 value



#### **Root Causes of Food Waste**

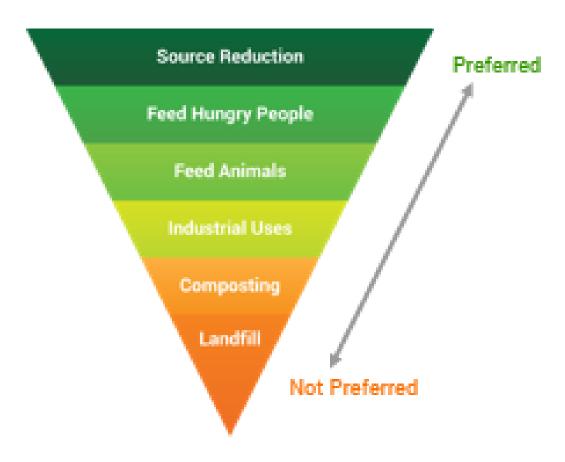




#### There Are Many Options

Portion Food Waste Food Trayless Donation to Agriculture Control Energy Composting Pulping Dehydrating Production Guest Garbage Aerobic Food Waste Awareness Digestion Disposers Tracking Programs

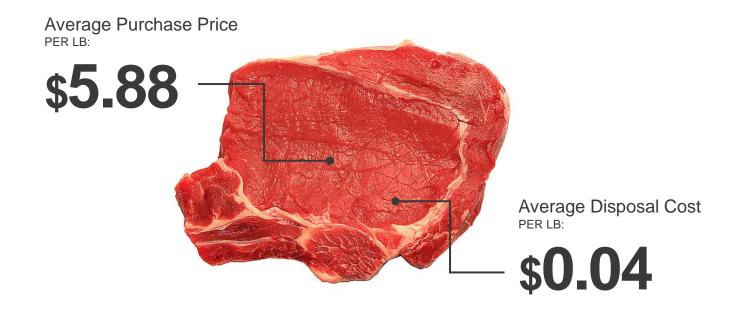
### Use the Food Recovery Hierarchy



www epagov/foodrecoverychallenge

#### Benefits: Financial

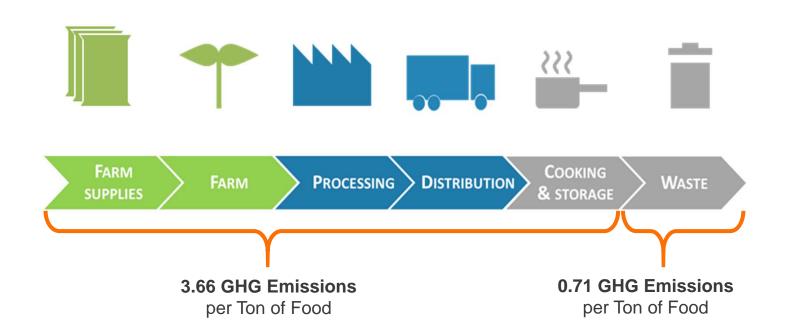




Source: US Bureau of Labor Statistics & Bucknell University

#### Benefits: Environmental





http://www.lifecyclebgic.com/au/2013/11/ba-perspective-of-food/



#### Food Waste Is a Critical Control Point

## What can you learn

from your trash?



#### What Gets Measured Gets Managed



METRICS INFLUENCE BEHAVIOR

#### Measurement Works Two Ways

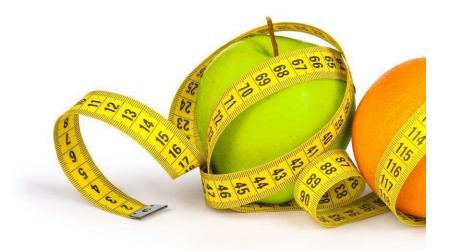
# Find out what is being wasted and why, so teams can...

#### **Understand & Improve**

- Understand the waste
- Set goals
- Track improvement

#### **Change Team Behavior**

- Engage employees
- Raise awareness
- Celebrate progress





#### Why Automation?

Save time and labor.

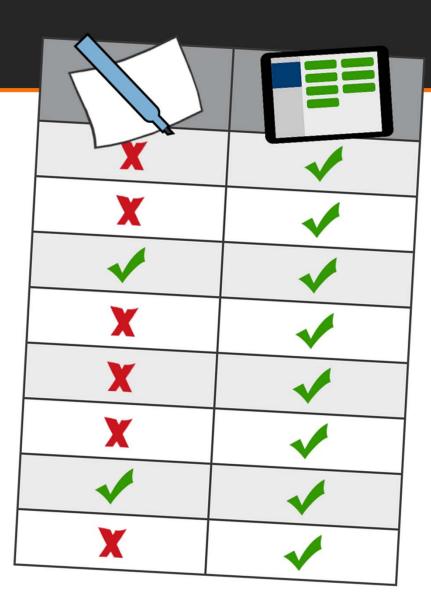
Reduce inconsistencies and bad data.

Collect more robust data, including photos.

Raise staff awareness by showing value and impact.

Transform data into analytical insights.

Prevent 3X more waste or more using systems over pen and paper.



#### LEANPATH FOOD WASTE PREVENTION PLATFORM

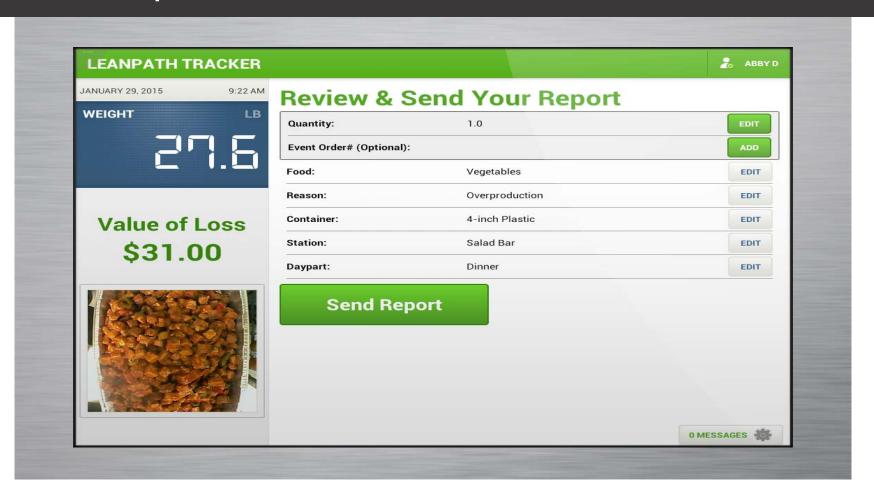
In 2004, LeanPath invented the world's first automated food waste tracking technology. Since 2014 alone, working in over 20 countries, LeanPath has empowered culinary teams to prevent 20 million pounds of food waste, an average 50% reduction per site. Our clients typically see 10-20X ROI and cut food costs by 3-8%.



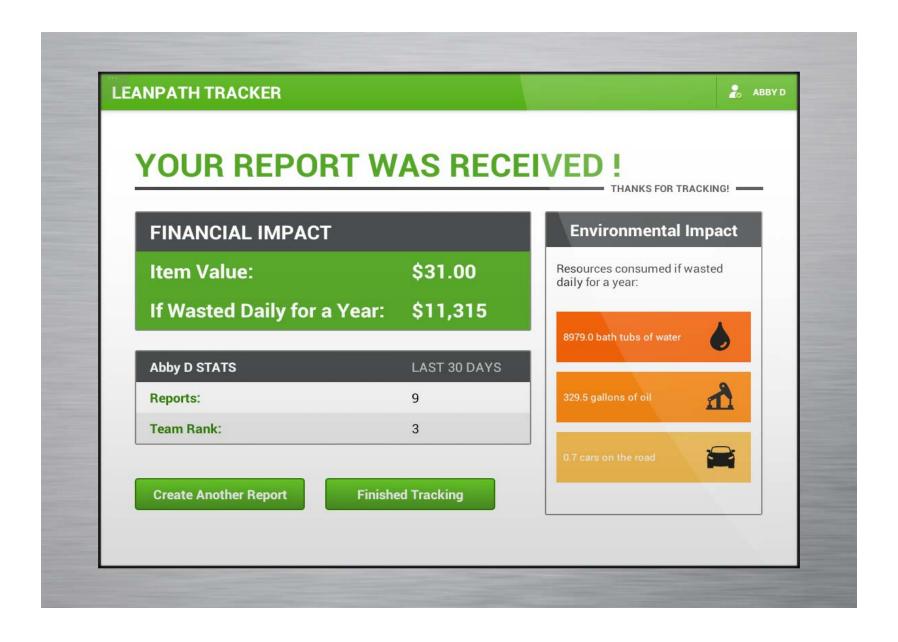
### Smart Meters Make It Easy



#### Fast, Simple, and Powerful



#### Instant Impact



#### Instant Data Transfer to the Cloud



#### Data Drives Behavior Change



#### **Data Motivates Action**

#### FOOD WASTE ALERT





IMAGE:



FOOD: Produce

WEIGHT: 52.7lb COST: \$66.40

REASON: Pan Waste-Overproduced

LOCATION:

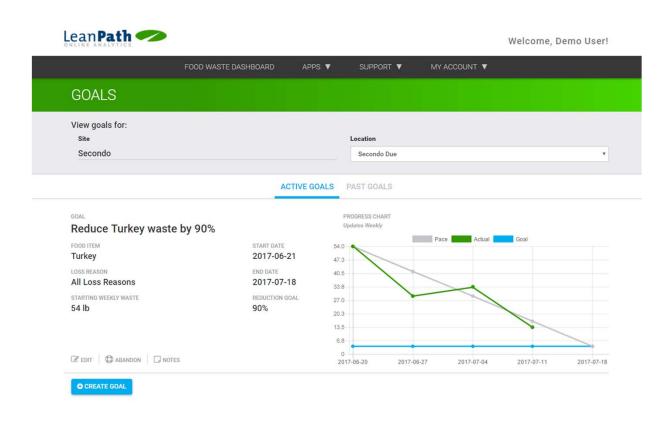
OPERATOR:

**DAY/TIME:** Jan 27, 2015 3:00 PM

LOG IN TO LEANPATH ONLINE

support@leanpath.com // 877.620.6512 ext.2

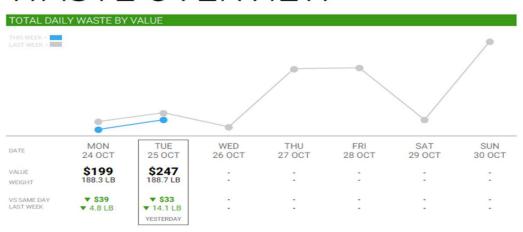
#### Data Inspires Measurable Improvement



© LeanPath, Inc. All Rights Reserved. US Patent #7,415,375

#### Detailed Reporting to Drive Operational Change

## WASTE OVERVIEW



WEDNESDAY | OCTOBER 26, 2016 TODAY'S WEATHER FORECAST: Light rain starting tomorrow afternoon.

2AM - 12PM = 2PM - 4PM = PM - 12AM =	YESTERDAY	LAST TUESDAY
	<b>\$98</b> 44.5 LB	<b>\$88</b> 43.6 LB
	<b>\$5</b> 9.8 LB	<b>\$45</b> 28.1 LB
	\$144 134.4 LB	\$146 131.1 LB

ITEM	YESTERDAY	WEEK-TO-DATE	TRANSACTIONS
Deli Meat	\$45   12.5 LB	\$45   12.5 LB	1
Fruit	\$39   22.8 LB	\$85   49.2 LB	2
Vegetables	\$38   69.3 LB	\$99   169 LB	12
Mixed Protein	\$24   19.1 LB	\$24   19.1 LB	1
Chicken - Boneless	\$24   9.6 LB	\$46   18.9 LB	2

CHARACTERIZATION LEVEL: EXCELLENT		UNCHARACTERIZED TRANSACTIONS		
		L	YESTERDAY	VS LAST TUESDAY
		TRANSACTIONS	0	NO CHANGE
		VALUE	\$0	NO CHANGE
	100%	WEIGHT	0 LB	NO CHANGE

TOP WASTE BY REASON CODE				
REASON CODE	YESTERDAY	WEEK-TO- DATE	8 WEEK TREND	
Expired	\$116   63.3 LB	\$141   79.4 LB	and a series	
Overproduction	\$85   74 LB	\$175   154.2 LB		
Quality	\$42   26.6 LB	\$63   54.1 LB	and.	



PAGE 2/4 WASTE OVERVIEW

#### We "Get" the Kitchen...

We have deep culinary and operational expertise.

We're not just consultants; we're former chefs, GMs, and operational experts. We get it.

We are the liaison between corporate executives, chefs, and front-line staff.





# **Adjust Production**



Use knowledge of food types to adjust production levels

Change batch production methods

Use data to know how much to pad numbers for banquets and buffets

# Purchase Differently



Adjust standing par levels

Consider alternate product options with less waste, such as pre-cut / pre-sliced

Adjust pack sizes

# Adjust Order Guides & Menus

Create more accurate order guides based on waste trend data

Eliminate high-waste menu items

Reduce complexity and streamline inventories



### Influence Front-Line Behavior

Ensure the execution matches the intended plan

Identify training needs through data, such as a knife skills course

Coach individuals to identify safe re-use opportunities





# Two Ways to Reduce Plate Waste

#### 1. Influence consumer behavior

Implement measures to influence daily behavior of individuals to reduce food waste left on their plates.

e.g. communicate the issue; share data on plate waste; behavioral nudges

#### 2. Optimize Menus

Make a small number of purposeful changes to the menu composition to reduce food waste left on plates.

e.g. reduce portion size; optimize item pairings; policies on extra servings, redesign serving workflow

## Data Enables Both Approaches

Measure Baseline

Measure current level of plate waste

Enable Consumer Change

Data to inspire and change behaviors

Enable Menu Optimization

 Detailed analytics insight to drive menu changes and optimization

Measure Impact

 Measure and track the success of changes and progress toward goal

# Industry Insights

#### Specific Strategies

- Moving from trays to "trayless" dining (Study by <u>Journal of</u> <u>Hunger & Environmental Nutrition</u>; 32% reduction in food waste when trays are made unavailable)
- Using right-sized serving utensils to ensure correct portioning
- Staffed service rather than self-service models to control portioning

## Educational Signage

- Signage matters (<u>Kansas State US study</u> found simple signs reminding people not to waste food resulted in 15% reduction of wasted food)
- What's on the sign matters too (Ohio State US study found that when diners know scraps go to compost they waste more)

#### Messages that Change Behaviors

- Injunctive norms to imply the approved behavior (Ex: 95% of our customers care about not wasting food)
- Loss aversion to highlight what's lost by not taking action (Ex: Wasted food today could have fed 500 hungry people)
- Clear calls to action (Ex: Take only what you will eat; come back for seconds)
- Vivid presentation of data showing how much food was wasted in a staggering way

# Consumer Side: "Spark" Behavior Change

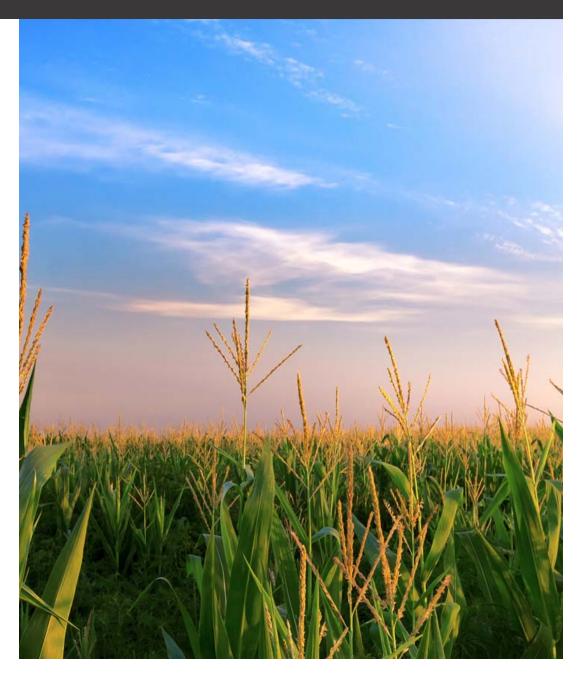


# The Power of Why...

# So Why Track Your Food Waste?

- Environmental
- Financial
- Social
- Demonstrated Impactful Results
- Meeting Changing Expectations
- Inspirational
- Helping to Drive Global Change!

It's the *Right* Thing to Do!



## Environmental...

### **Top 10 solutions to climate change**

Total gigatons of CO2-equivalent emissions that could be reduced by 2050

SOLUTION		PLAUSIBLE SCENARIO		DRAWDOWN SCENARIO		OPTIMUM SCENARIO
Refrigerant Management	1	89.74	2	96.49	3	96.49
Wind Turbines (Onshore)	2	84.60	1	146.50	1	139.31
Reduced Food Waste	3	70.53	4	83.03	4	92.89
Plant Rich Dict	4	66.11	5	78.65	5	87.86
Tropical Forests	5	61.23	3	89.00	2	105.60
<b>Educating Girls</b>	6	59.60	7	59.60	8	59.60
Family Planning	7	59.60	8	59.60	9	59.60
Solar Farms	8	36.90	6	64.60	7	60.48
Silvopasture	9	31.19	9	47.50	6	63.81
Rooftop Solar	10	24.60	10	43.10	13	40.34

CRAWDOWN
THE MOST COMPREHENSIVE
PLAN EVER PROPOSED TO
REVERSE GLOBAL WARMING
EDITED BY PAUL HAWKEN

Source: Project Drawdown



# Measurable Financial Impact

Save **2-6% or more** on annual food purchases.

Reduce preconsumer food waste by 50% or more. Save \$14 for every \$1 spent on food waste measurement programs.



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# Case Study: Google Food

"In 2015, Google cafés in the Bay Area saved 440,540 pounds of food from going to waste. So far in 2016, that figure is more than 1 million pounds, and the number is rising."

From !the Google Environm entBlog







# We Can Make Huge Impact!



Sustaining our world Food. Climate. Environment.







