



Scaling Food Waste Prevention Globally Through Measurement, Data, and Analytics

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PREPARED FOR

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Food Waste: Scope, Scale, & Rising Awareness...

- FAO estimates that roughly 1/3 of all food produced for human consumption is lost/wasted about 1.3 billion tonnes annually
- Other studies (IMECHE, SIWI) estimate annual food loss and waste at up to 50%(2 billion tonnes)
- FAO cites the dollar cost at \$1 trillion U.S. annually (\$680B in developed countries, \$310B in less developed countries
- In the U.S. we waste **up to 40%** of our food annually
- ReFED: economic value of food waste in the U.S. = \$218 billion
- Rising Global Momentum, Many signals of the need for urgent change in the food system; Food Waste Reduction pivotal

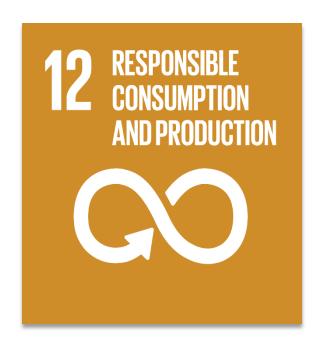




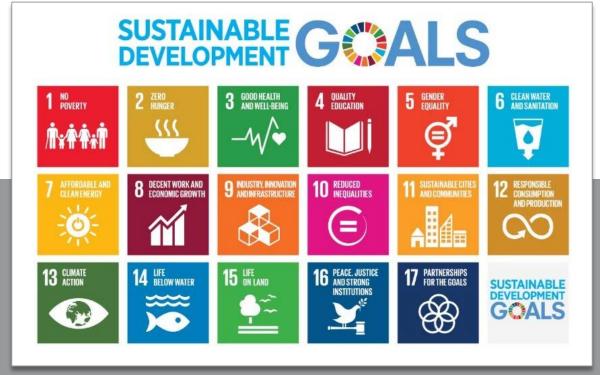
And We Have an Aggressive Global Goal...

By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses (Target 12.3)

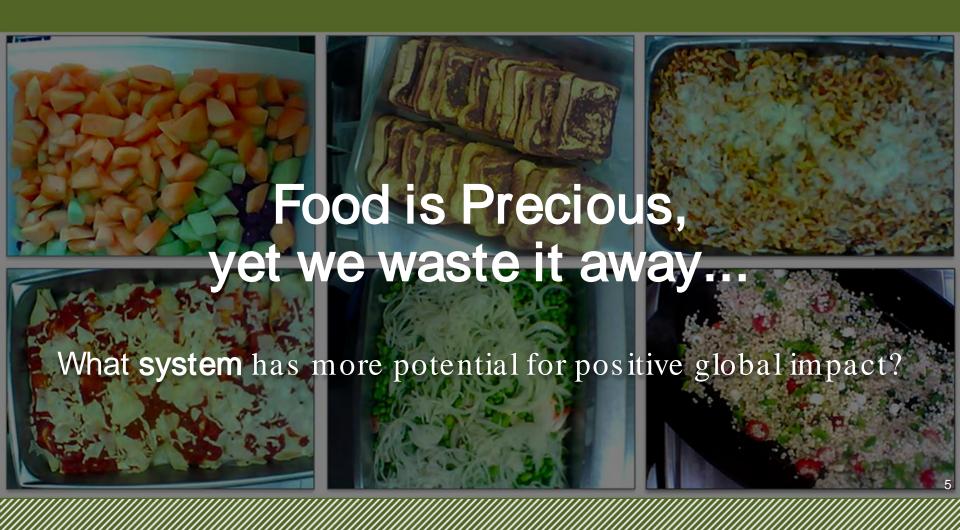




Food Waste is a Critical Nexus Issue...



Reducing Food Waste Really Matters



Pioneers in Food Waste Prevention



Selected Experience – Multiple Sectors

	•	:	
ENTERPRISE	HEALTHCARE	EDUCATION	HOSPITALITY/GAMING
aramark	PROVIDENCE Health & Services	Stanford	HILTON
IKEA	KAISER PERMANENTE	ILLINOIS UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	worldwide worldwide
Google	SWEDISH	UNIVERSITY OF NOTRE DAME	Delaware North
sodex*o	PUNITY	VILLA NOVA UNIVERSITY	PENN NATIONAL GAMING, INC.



Key Areas of Waste in Foodservice...

Pre-Consumer: "Kitchen Waste"



Post-Consumer: "Plate Waste"



We Often Waste Food to Manage Risk...























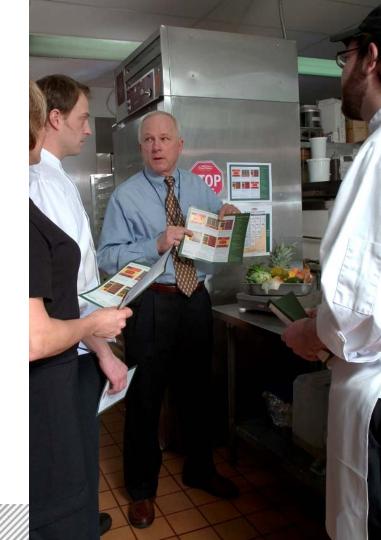


What We Learned Early On

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 global change makers.





And We've Never Stopped Innovating...



Making measurement fast, easy, and accurate



Ensure a sustainable future by eliminating global food waste

We can take control.

It's far beyond tools, tech and software. It's a complete food waste strategy.

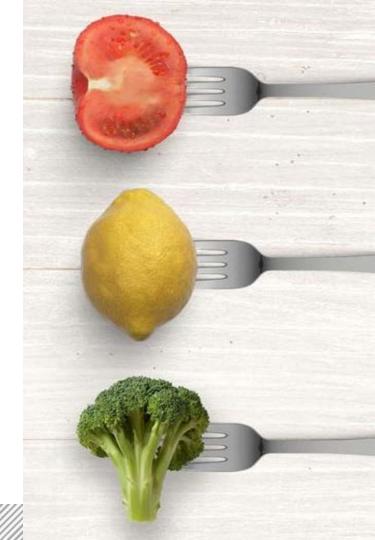
Since 2014 Alone...



The Measurement Gap

We need data to...

- Define Baselines & Measure Change Over Time
 Without data we cannot scope the problem or assess improvement
- Conduct Root Cause Inquiries and Develop Solutions
 Without data we can't diagnose the roots of the problem
- Engage People in the Food Waste Effort
 Food waste prevention is a team activity, and we need everyone in the kitchen (and the industry) on the team
- We need data to recruit supporters



Closing the Measurement Gap – 3 Key Points

 The path to meaningful food waste reduction <u>requires</u> Prevention

 Measurement is the optimal route to Prevention

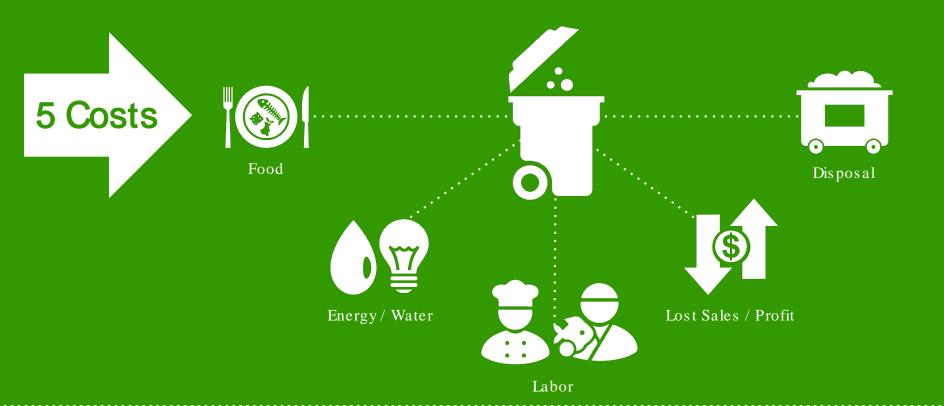
Because metrics influence behavior

 Automation is the optimal approach to Measurement



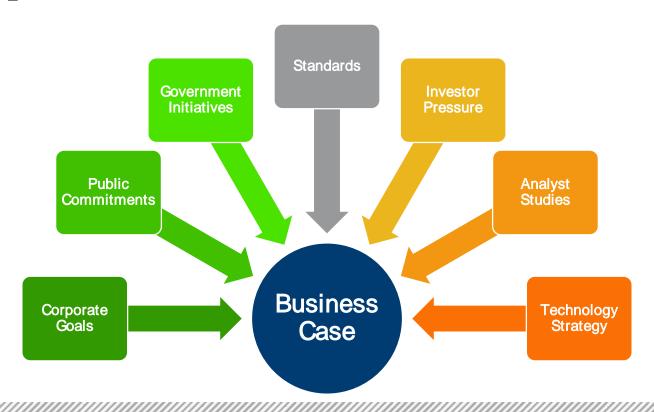


Food Waste Costs Organizations a Bundle...





Develop Your Business Case; Link to Strategy



Building the Business Case

- Public Commitments IKEA, Sodexo 50%,
 Aramark (50%, Kroger (Zero Waste/Zero Hunger)
- Government Initiatives SDGs, Target 12.3 (50%), EU Waste Framework
 Directive, Australia National Food Waste Strategy
- Standards Food Loss and Waste Measurement Protocol (WRI)
- Investor Pressure Organizations pushed to disclose food waste data
- Analyst Studies ReFED Reports, BCG study, NRDC study
- Partnership Initiatives Schneider Electric and Global Footprint Network
 Whitepaper; WRAP and IGD launch UK Food Waste Reduction Roadmap:
 - All major UK retailers and 50+ large food businesses have committed to achieving 50% reduction in food waste by 2030; consistent measurement, transparent reporting





Tracking, measuring, and reporting on food waste becoming a basic expectation



Measurement Matters Most, and Works 2 Ways:

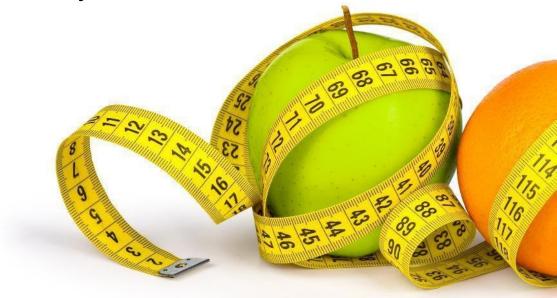
Find out what is being wasted and why, so teams can...

Understand & Improve

- Understand the waste
- Set goals
- Track improvement

Change Team Behavior

- Engage employees
- Raise awareness
- Celebrate progress



You Can't Manage What You Don't Measure - Drucker

Leanpath Trackers Make Tracking Easy





Bench Scale with Photography

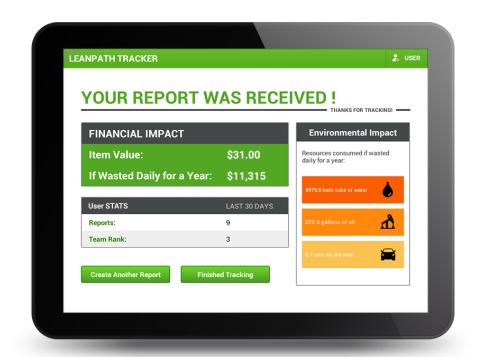
Tablet Solutions



Pre and Post-Consumer Floor Scale

Staff Instantly See Value and Impact

- Waste impact metrics and environmental equivalencies upon completion of every food waste transaction
- Gamification adds to the Tracker experience, "wins" encourage participation



The Leanpath Analytics Platform



Your data is automatically compiled and uploaded to Leanpath Online.

Leanpath Online

- Clear, intuitive graphics
- Drill-down capabilities for detailed investigation
- View data and trends for one or multiple sites



Data Yields Insights to Drive Behavior Change



Waste Overview Reports



Data Motivates Action

Instant alerts deliver real-time insights, enabling immediate intervention

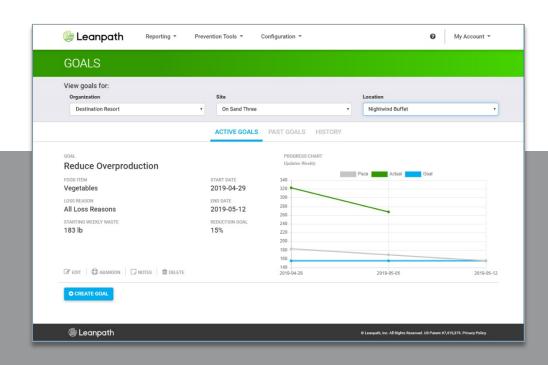
Identify operational areas where corrective action is needed, and drive behavior change



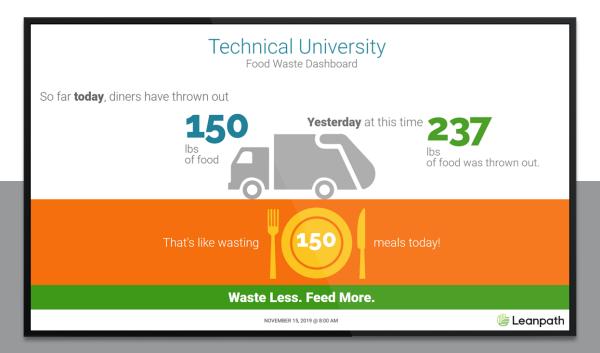
Data Inspires Measurable Improvement

Goal module allows targeting of specific items for reduction

Keeps teams focused and engaged; enable productive conversations



Leanpath Spark



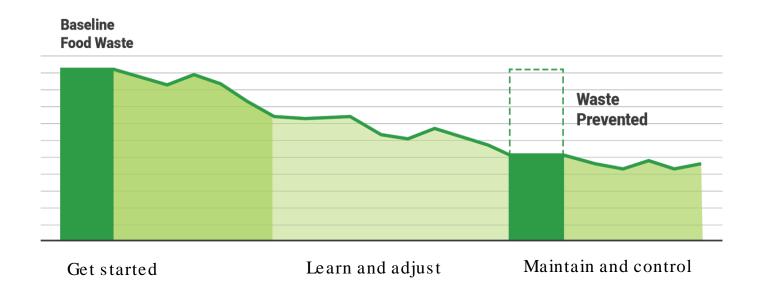
Sparking behavior change among consumers...

The Key Opportunity

- Shift the food waste conversation upstream to prevention
- Engage businesses in responsible production to avoid overproduction



Measurement Makes Food Waste Prevention Visible



Key Benefits



Reduce pre-consumer food waste by 50% or more

Increase Savings

Save 2-8% or more on annual food purchases

Additional Benefits



Reduce CO2 emissions and save water.



Save on Labor



Save on Disposal



Increase Employee Engagement

Staff spend less time preparing wasted items.

You're throwing away less.

Let staff know they can have a major impact.



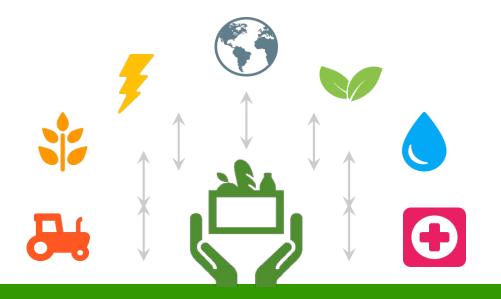
Leading Change to Focus on Prevention...



Game-changing Innovation - Prevention at Scale



Making the Business Case for Food Waste Prevention



- Through tracking, measurement, analytics, and behavior change...
- Unleashing the multiplier effect in food waste to benefit all the SDGS
- Reducing overproduction
- Reducing Earth Overshoot

Sustaining our world.
Food. Climate. Environment.





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Join us
in this journey
to make food waste
prevention and
measurement
everyday practice in the
world's kitchens



Leanpath