

Working together to achieve SDG 12.3: CONCRETE ACTIONS PREVENTING FOOD WASTE



International Meeting organized by European Food Banks Federation in collaboration with Fondazione Banco Alimentare Onlus. with the technical support of FAO, and under the patronage of Alleanza Italiana per lo Sviluppo Sostenibile

Wednesday, 15 May 14:00-18:30 | Sheikh Zayed Center



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Nudging University Students to Reduce Food Waste : The Case of Mae Fa Luang University, Thailand

Rosa Rolle, Team Leader, Food Loss and Waste

Guenter Hemrich, Deputy Director a.i.

Nutrition and Food Systems Division



Food and Agriculture Organization of the United Nations

Objective

 To shape habits and enhance knowledge about food waste in a college canteen, toward promoting behavior change.





An Awareness Raising Campaign Launched on The Campus





Campaign banners displayed in cafeterias to create a social norm on campus





Collection of Baseline Data

- Establishing baseline parameters
- Identifying the categories of foods wasted.



Visual Inspection



Cue Cards Developed on the Basis of the Baseline Survey



Don't let it go to waste ...



Staple Food



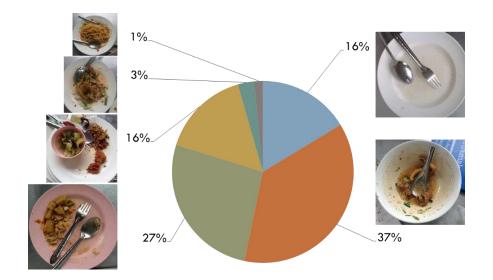


Non-Intrusive Nudging: Cue Cards Placed on Canteen Tables





Breakdown of Food Waste At End of the Campaign





Probability of the Occurrence of Different Types of Food Waste Before and After the Campaign

	Type of food waste	p before the campaign	<i>p</i> after the campaign	Chi-Square (df =1)	p-value
	1. Rice and noodle	0.521	0.331	14.556	0.000
\implies	2. Meat	0.186	0.088	7.395	0.007
	3. Animal parts	0.121	0.122	0.000	0.985
	4. Bones and shells	0.077	0.074	0.008	0.929
	5. Main vegetables	0.076	0.047	1.364	0.243
$ \longrightarrow $	6. Side vegetables	0.650	0.561	3.376	0.066
	7. Peels and seeds	0.022	0.007	1.427	0.232
	8. Soup and sauces	0.399	0.399	0.000	0.988



Summary

Findings

- Carefully designed information was effective in changing behaviors.
- The share of those who finished all of their food nearly doubled after the campaign.
- Food waste was significantly reduced in the food categories included on the cue cards

Conclusions

- Voluntary behavior changes are limited to actions requiring little additional effort.
- Other types of interventions such as rule-based measures, economic incentives and changes in physical settings and how food is served should be considered to further food waste prevention.
- Reuse and recycling options are needed for liquid foods and other unavoidable food waste.



Acknowledgement

Measuring the Impacts of a Save Food Campaign to Reduce Food Waste on Campus in Thailand

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EU actions to facilitate food donation and fight food waste

Anne-Laure Gassin

Policy officer Food information and composition, food waste (Unit E1) Directorate-General for Health and Food Safety

FEBA 1st International Conference Rome, 15 May 2019







<u>SDG 12.3</u>: 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.

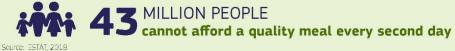


Health and Food Safety



In the EU...







EU food donation guidelines



On World Food Day the European Commission adopted guidelines to facilitate food donation in the EU.



#FoodDonationGuidelines #CircularEconomy #WorldFoodDay



European Health and Commission Food Safety Food waste – we act! **#FoodWasteEU**

http://ec.europa.eu/food/safety/food_waste/eu_actions/eu-platform_en

Health and Food Safety



Facilitate food donation: leverage learning and experience in the EU



Circulaire relative aux dispositions applicables aux banques alimentaires et associations caritatives (Belgian food safety agency)



W Fyira Foodstuffs donated to food aid (Finnish food safety agency)



Guide des bonnes pratiques d'hygiène de la distribution de produits alimentaires par les organismes caritatifs (French Ministry of Agriculture, Agrifood, and Forestry)

reference men einer Leitfaden für die Weitergabe von Lebensmitteln an soziale Einrichtungen – Rechtliche Aspekte (German Federal Ministry of Food and Agriculture)



Recupero, raccolta e distribuzione di cibo ai fini di solidarietà sociale (validated by the Italian Ministry of Health)



Food Safety Food Donation Guidance to Charities and Businesses (The Food Safety Authority of Ireland)



Isakymas del labdarai ir paramai skirto maisto tvarkymo aprašo patvirtinimo (State Food and Veterinary Service, Lithuania)



Coordinating Table for Food aid and fight against food waste (art. 8 Law 166/16)



An Italian experience

Renato Dagostino

Member of Table for Food Aid and fight Food Waste MIPAAFT, Ministry of Economy and Finance, Italy





Coordinating table for food aid and fight against food waste





Fiscal Barriers to Food Donations





Fiscal Barriers to Food Donations





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Escuela REAGRO 2018



Lisa Moon President & CEO, Global FoodBanking Network, USA



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17 Food Banks
32 Participants
70 Training Hours
60 tons of products rescued during field visits
21 Facilitators
120 Baskets Delivered
3 Regional Work Teams















FOR THE GOALS



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MESA BRASIL Sesc



Karla Feijão Coordinator of Serviço Social de Comércio (SESC) – Mesa Brasil



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RESULTS IN 2018

NATIONAL

40,5 million kg of food distributed; 5.500 Educational actions; 529 employees; 700 volunteers; 5.890 assisted institutions; 310 partner companies.

DISTRITO FEDERAL

1million Kg of food distributed; 31Educational actions; 16employees; 300 volunteers; 217 assisted institutions; 50 partner companies.





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RESPONSIBLE Consumption

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17 PARTNERSHIPS



MealConnect Feeding America's food waste intervention



Claire Babineaux-Fontenot CEO Feeding America, USA





The Problem: Food Waste in the United States

Nearly 80% of food waste comes from nutritious, perishable foods including meats, fruits, vegetables and dairy.



* The United States Department of Agriculture estimates that one meal is equal to 1.2 lbs of food.



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Feeding America's Food Waste Intervention: MealConnect





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A food company offers excess food; the MealConnect algorithm match the donation to a frontline organization; the organization accepts and picks up the donation; **food is delivered to people who need instead of a landfill.**













Bella Dentro



Luca Bolognesi Co-founder, Bella Dentro, Italy



Food and Agriculture Organization of the nited Nations







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 - 45% of fruit and vegetables produced is wasted
 - More than 40% is lost during harvest due to cosmetic and dimensional standards









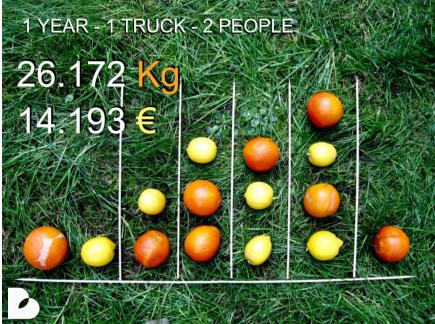
Bella Dentro is an alternative end-to-end system that gives FAIR VALUE to imperfect produce and to its farmers

















Converting wonky fruits and veggies into cooked / canned / frozen meals

Lithuanian solution preventing food waste

Kristina Tylaitė

Deputy Director, Maistobankas, Lithuania



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RESPONSIBLE Consumption

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Monthly results:

- 2,4 t of fruits and veggies processed
- 1572 meals of cooked / canned / frozen food produced





FONTANETO



Federica Calcagno Food Technologist, Fontaneto S.r.l, Italy



Food and Agriculture Organization of the



Fontaneto's goal is to reduce food loss and minimize waste

- Careful selection of raw materials
- Accurate Production planning
- Employees training
- Waste management indicators
- LEAN /SMED PRODUCTION guidelines
- Company sustainability







Fontaneto Waste Indicators

- 1. Calculated for each production line
- 2. Calculated during the packaging process
- 3. Calculated in the refrigerated warehouse

amount of waste (kg)

products total amount (kg)

trashed packaging amount (kg)

packaging used (kg)

item total sold with promotional methods (kg)

item total (kg)

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Following the indicators results it's imperative that we optimise our production planning and minimise the setup timing

THE SOLUTION IS KARG-THOMPSON ALGORITHM



avoiding excess stock and unsold items reducing batch dimensions





Bring the Food SITICIBO Banco Alimentare



Roberto Scarpari

Responsible Siticibo Programme, Banco Alimentare Trentino-Alto Adige, Italy









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CONSUMPTION AND PRODUCTION





In 2018 we recovered from **Retails:** 454 tons



In 2018 we recovered from **Food service**: **36 tons**











FoodCloud



Emma Walsh COO, FoodCloud Hubs, Ireland











Impact





FoodCloud helps over **9,100** charitable groups get surplus food in Ireland and the UK















"Our vision is for a world where no good food goes to waste"







fa bene. S-NODI



Tiziana Ciampolini CEO di S-NODI, Caritas Italiana, Italy



Food and Agriculture Organization of the







CLEAN WATER









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With the technical support of the Food and Agriculture Organization of the United Nations (FAO)

ASVIS



FOOD FOR GOOD From meetings to solidarity

The meeting industry's social commitment





Federica Lucini Marketing & Promotion Manager, Italian

Exhibition Group SpA, Federcongressi, Italy



COOD

01 FOOD FOOR GOOD: HOW IT WORKS



Tell Federcongressi&Eventi about your event



The non-profit organization gives instructions to the catering service



Based on the location, we alert Banco Alimentare or Equoevento



The non-profit organization collects the food and delivers it to charity





3 The non-profit organization identifies the nearest charity location



The food is eaten!













PALACONGRESSI DI Since February 2015 over 30,000 meals donated to Opera Sant'Antonio Charity RIMINI







February 2018

Food for Good project is included in the EU Platform on Food Losses and Food Waste





The figures since 2015

109,000 ready meals collected

5,900 kg of bread and fruit donated



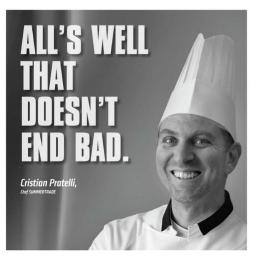




04 FOOD FOOR GOOD: THE CAMPAIGN









FOOD FOR COOD is an initiative aimed at recovering excess food from events. It was devised by FedercongressiBeventi, in partnership with the non-profit organisations Banco Alimentare and Equevento.

Signing up to the initiative is simple, entails no cost or commitment, and is in compliance with the "Gadda" social solidarity law.

Contact FEDERCONGRESSI&EVENTI to find out how to support this initiative.

www.foodforgood.it. @ProgettoFoodforGood





Partnership between French Food Banks & Costa Crociere

A concrete example of fight against food waste



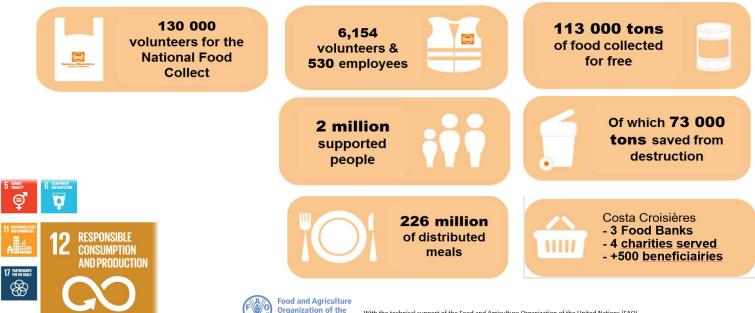


Food and Agriculture Organization of the United Nations **Jacques Bailet**

President, Fédération Française des Banques Alimentaires, France



Key figures





4GOODFOOD: Costa Crociere and FEBA

Objective: to donate surplus food from Costa Crociere to the French Food Banks

- July 2017 : beginning of the partnership in Italy in Savone
- May 2018 : launch of the project in France in Marseille with the local Food Bank
- December 2018 : two new steps in Guadeloupe and Martinique
- Type of products : "ready to eat" food, not served to guests, and delivered in accordance with food safety regulations



To date the project is implemented in 9 European harbours and has rescued over 100,000 portions.





The project on the ground







FEED FROM FOOD

Innovative and Benefit start up



Marta Castrica CEO, Feed From Food S.r.l, Italy



Food and Agriculture Organization of the





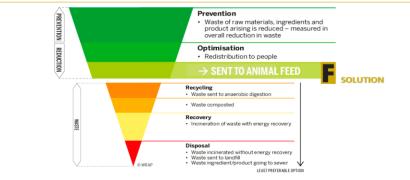


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FEED FROM FOOD OFFERS:

A NEW SERVICE TO THE COMPANIES

The service offered by **Feed from Food** fully responds to the growing demand for solutions aimed at improving the efficiency and sustainability of the agri-food supply chain, providing an innovative and alternative solution.

ONE PRODUCT: PET FOOD

The final product can be used as feed (ingredient and/or pet food and/or snack) for pet animals. **Feed from Food** product has a high nutritional quality and is in accordance with food and feed safety aspects required by the EU legal framework.





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INNOVATIVE

Creation of a **"New"** supply chain and a product that currently does not exist. (Patent Pending for both the technology and the final product).





The construction of a **Feed from Food system** can take place inside closed spaces because there are no problems of emissions and requires little construction space and has a low energy consumption.



REPICABLE

The **Feed from Food technology** is scalable, is able to process different food matrices and quantities and can be exported in whatever other countries.



Feed from Food has just completed the installation of the first pilot plant and is testing the first productions.









