

# GO LOCAL! HOW A LOCAL APPROACH CAN HELP PREVENT FOOD WASTE

PORTUGAL: Enablers of Circular Food Waste Hubs (City-to-City Learning Experiences)

Circular Food Waste Community Hubs: Preparing the Pilot Models for Circular Neighbourhoods

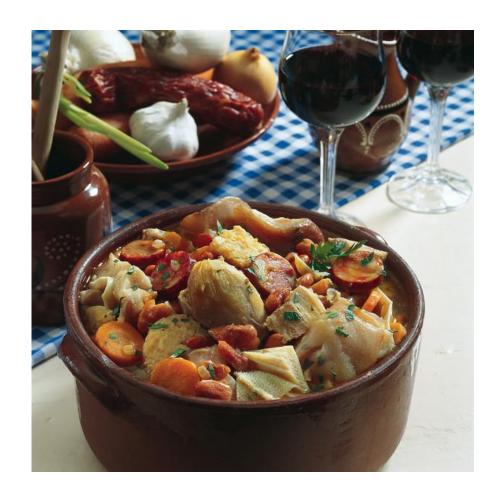
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# We love food in Portugal, as you would know if you've ever been here!

#### LIPOR – INTERMUNICIPAL WASTE MANAGEMENT COMPANY OF GREATER PORTO





"Tripas à moda do Porto"



"Migas à Alentejana"







"Sardinha"

But... this is not a story about the food we eat...

This is a story about the food we don't eat!!!!!



#### IN PORTUGAL

WE ESTIMATED THAT 17%
OF EDIBLE FOOD
PRODUCED FOR HUMAN
CONSUMPTION IS LOST OR
WASTED

#### **AROUND 1M T/YEAR**

(PERDA, 2012)



1.000.000

**INHABITANTS** 

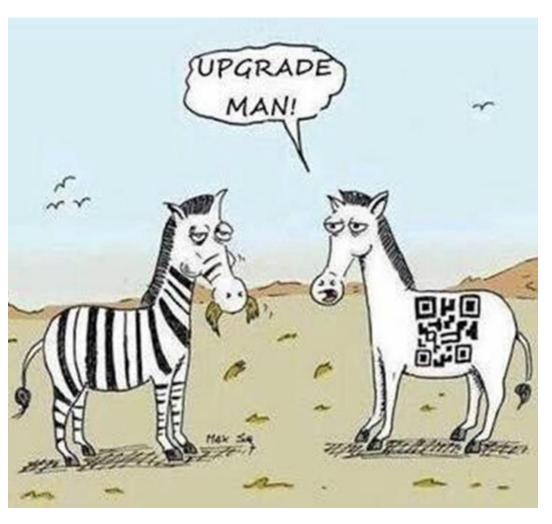
≈500.000 t

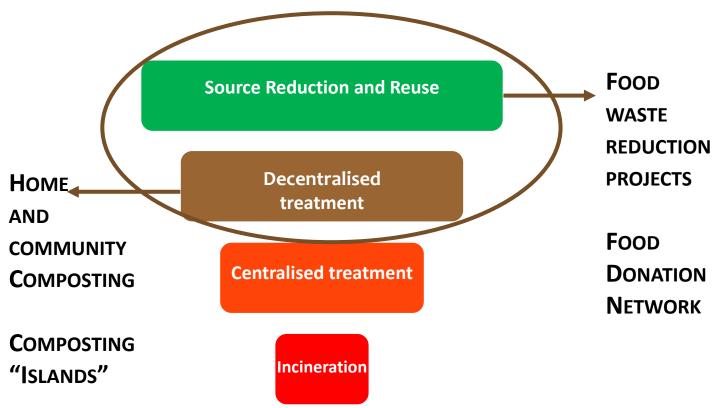
**MUNICIPAL WASTE PRODUCTION** 

≈40%
BIOWASTE IN MUNICIPAL WASTE...

... And **25%** IS FOOD WASTE

#### FOOD WASTE REDUCTION STRATEGY





#### FOOD WASTE REDUCTION STRATEGY



#### **OUR TARGET: LOCAL BUSINESSES AND THE COMMUNITY**



**RESTAURANTS** 

DOSE CERTA (SINCE 2008)

EMBRULHA. (SINCE 2016)



**CANTEENS** 

(SCHOOLS, HOSPITALS, COMPANIES)

**DOSE CERTA** 



PARTNERSHIPS WITH
ENTITIES OR
ASSOCIATIONS

(with impact on Food Waste reduction) (SINCE 2017)



**FAMILIES** 

WORKSHOPS; BEST-PRACTICE DOCUMENTS (SINCE 2008)

cooking without waste |
 sustainable meals |
 leftover uses | knowing
 and cooking
 seasonal fruits and
 vegetables

#### FOOD WASTE REDUCTION STRATEGY

lipor

- REDUCE FOOD WASTE AND PROMOTE A BALANCED AND SUSTAINABLE
   DIET
- ENCOURAGE CITIZENS TO CHANGE THEIR EATING HABITS (with the collaboration of the Portuguese Association for Nutrition)
- CHANGE CITIZENS HABITS: FIGHTING A MENTALITY BUILT ON DESCARTABILITY BY SHOWING RESPECT FOR THE FOOD WE EAT









#### FOOD WASTE REDUCTION INITIATIVES





**DOSE CERTA** 

**RESTAURANTS** 

**CANTEENS** 

(SCHOOLS, HOSPITALS, COMPANIES)

The key success factor is mandatory weighting of the wasted food!



Diagnosis phase (1 week): where food waste is weighted and the number of meals sold is registered



Training (environmental and healthy practices | Sustainable purchasing, cooking and menus)) (LIPOR | APN)



Awareness phase (1 week): Food waste awareness campaign with a 2<sup>nd</sup> analysis on food waste production \*



Dose Certa Certification



Follow-up and Monitoring

\* same procedure

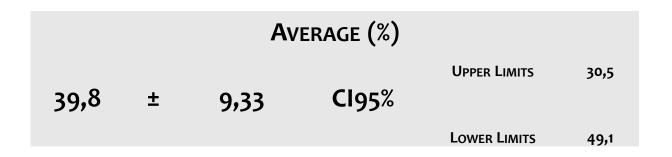
#### **OUR SOLUTIONS**





RESTAURANTS		
FOOD WASTE REDUCTION/QUARTER (KG)	% /QUARTER	
326	53	

CANTEENS				
FOOD WASTE REDUCTION/QUARTER (KG)	% /QUARTER			
624	37			



#### FOOD WASTE REDUCTION INITIATIVES



#### EMBRULHA.

**RESTAURANTS** 

- Increase Food Waste Reduction
- Encorage citizens to take home their leftovers

"If you don't it all... Wrap it"

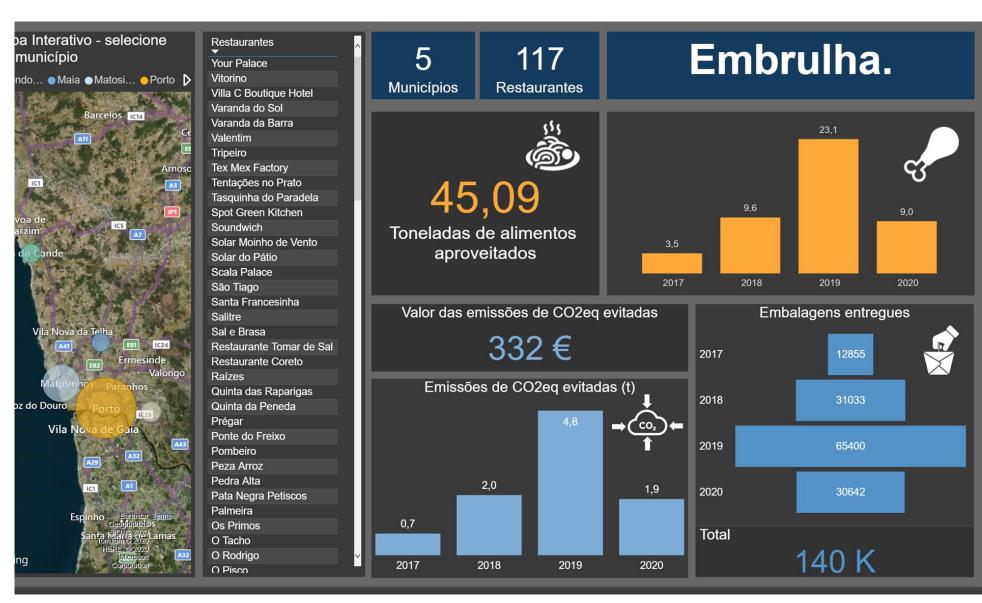


#### **OUR SOLUTIONS**





EMBRULHA.



#### **OUR SOLUTIONS**



#### PARTNERSHIP WITH ENTITIES OR ASSOCIATIONS

(with impact on Food Waste reduction) (since 2017)

Local entities, associations, initiatives or businesses that, despite of their scope (either social, economic or environmental), contribute to the reduction of food waste production.

#### **Social Entities**















**Environmental Entity** 



#### **Economic Businesses**







A novel, successful network with high impact in food waste prevention.



YEAR	FOOD SAVED (TONNES)	CO2 EMMISSIONS AVOIDED PER YEAR (TONNES)	Avoided waste treatment costs (€)
2017	8 400,1	1 765,5	420 007,1
2018	4 727,3	993,5	236 364,9
2019	6 263,0	1 316,3	313 150,1
2020	6 686,6	1 405,3	334 329,7
2021	6 258,1	1 315,3	312 905,9



CO<sub>2</sub>



FOOD **S**AVED 32 335,1 T

CO2 EMISSIONS AVOIDED 6 795,9 T

Avoided waste treatment costs 1 616 757,7€

#### **AWARENESS CAMPAIGNS AND MATERIALS**













#### FOOD WASTE REDUCTION - EUROPEAN PROJECT



SEVEN EUROPEAN CITIES ARE PILOTING ACTIONS TO CLOSE THE LOOP OF BIO-WASTE, AND CONSTRUCTION AND DEMOLOTION WASTE.



### Food demand management model

A mathematical model for predicting food waste flows in the social economy and tourism sectors. This will be used to form the bases of a tool for the daily management of food demand and supply fluctuations in these sectors.

### Circularity decision making support tool

A tool to support social institutions, hotels, restaurants, citizens and tourists in assessing the circularity impacts of their decisions. This tool will guide users towards the most circular choice of what to do each time organic matter is used, bought, eaten or discarded.

## Circular Procurement Guidelines for the Social Economy and Tourism Sector

A tool for Biowaste circular procurement (canteens, catering and sustainable management practices of green spaces ). This tool is a complex excel database with a lot of variables on procurement.

#### **S**OME LESSONS



- THERE'S NO SINGLE SOLUTION, BUT SEVERAL INTERDEPENDENT SOLUTIONS
- AWANERESS AND COMUNICATION CAMPAIGNS ARE NEVER ENOUGH
- ENGAGE WITH THE CITIZENS
- **INVOLVEMENT** OF SEVERAL **STAKEHOLDERS**
- MOTIVATING RESTAURANTS TO JOIN AND GET INVOLVED;
- RAISE AWARENESS FOR A MORE BALANCED AND SUSTAINABLE
   DIET WITHOUT WASTE;
- MONITOR THE ENVIRONMENTAL AND ECONOMIC IMPACTS OF ALL THE INITIATIVES.



https://pt.picmix.com/pic/Family-meal-Contest-9950399

