



EU PLATFORM ON FOOD LOSSES AND FOOD WASTE FOOD LOSS AND WASTE MONITORING SUB-GROUP







Basque Autonomous Community



2,193,199 inhabitants (4.60 % of Spain)

7,234 km² (1.43 % of Spain)







Strategy against food waste in the Basque Country

OBJECTIVES:

- 1. Promote actions to prevent and reduce food waste throughout the food production, transformation, supply and consumption chain in the Basque Country.
- 2. Facilitate the **reuse of food surpluses for human consumption** and the **revaluation of food surpluses and by-products of food origin for use in animal feed**, always with Food Safety guarantees.
- 3. Support the **transition towards a Circular Economy model** in the Basque agrifood system.
- 4. Respond to the **UN Sustainable Development Goal** (SDG 12.3).





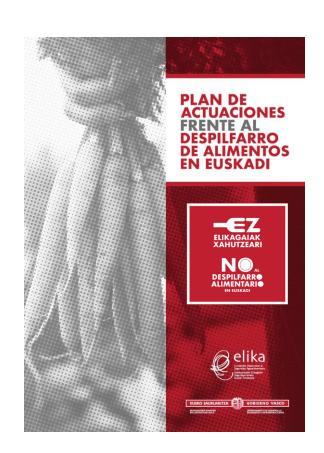




Strategy against food waste in the Basque Country

LINES OF ACTION:

- 1. QUANTIFICATION of food waste in the different links of the food chain in the Basque Country.
- 2. AWARENESS-RAISING actions aimed at society and at companies in the Basque agri-food system. www.zerodespilfarro.eus
- 3. Development of PROTOCOLS for the prevention of food waste and, clarification and definition of standards to guarantee food and legal safety.
- 4. Promotion of RESEARCH AND INNOVATION activities with local and international entities aimed at reducing food waste.
- 5. Promotion of INTERLOCUTION AND COLLABORATION between organisations and companies in the agri-food sector. Creation of networks.









Quantification of food waste in the Basque Country

Acts as an AWARENESS RAISING measure



Provides KEYS to solutions



Information on the ORIGIN of waste



INTERLINKED FOOD SYSTEM
DIALOGUE AND COLLABORATION
METHODOLOGICAL EXPERTISE







Quantification of food waste in the Basque Country

- ✓ One of the first initiatives in the European Union that measures food wastage following the guidelines of the European Commission.
- ✓ One of the first analyses in Spain
- ✓ A study carried out by agents of the Basque food system.



















What is measured?

Food waste as is defined in COMMISSION DELEGATED DECISION (EU) 2019/1597:



- Inedible parts
- Does not distinguish loss and waste





- By-products
- Human food that ends up as animal feed (logistical failures, packaging...)

CONSUMPTION













Where is measured?

According to COMMISSION DELEGATED DECISION (EU) 2019/1597:

National Classification of Economic Activities (CNAE):

Division: Companies and entities



BY STAGES

What we consider in our ANALYSIS:

National Classification of Economic Activities (CNAE)



EVEN MORE CONCRETE

Technical Economic Orientation (in the agricultural-livestock sector)







How is measured?

According to COMMISSION DELEGATED DECISION (EU) 2019/1597:

ANNEX III

Methodology for the in-depth measurement of food waste

Stage of the food supply chain	Methods of measurement				
Primary production Processing and manufacturing	— Direct measurement	— Mass balance		Questionnaires and interviews Coefficients and production stat Waste composition analysis	istics.
Retail and other distribution of food			— Waste composition analysis	— Counting/scanning	
Restaurants and food services					— Diaries
Households					







How is measured?

According to COMMISSION DELEGATED DECISION (EU) 2019/1597:

Direct measurement (weighing or volumetric assessment)

<u>Use of a measuring device</u> to determine the mass of samples of food waste or fractions of total waste, directly or determined on the basis of volume. It includes measurement of separately collected food waste.

Scanning / Counting

Assessment of the <u>number of items that make up food waste</u>, and use of the result to determine the mass.

Waste composition analysis

<u>Physical separation of food waste</u> from other fractions in order to determine the mass of the fractions sorted out.

Diaries

An individual or group of individuals keeps a <u>record or log of food waste information</u> on a regular basis.







How is measured?

According to COMMISSION DECISION (EU) 2019/1597:

Other methods:

The following methods shall be used when there is no direct (physical) access to food waste or when direct measurement is not feasible:

Mass balance

Calculation of the amount of food waste on the basis of the mass of inputs and outputs of food into and out of the measured system, and processing and consumption of food within the system.

Coefficients

Use of <u>previously established food waste coefficients or percentages</u> representative for a food industry sub-sector or for an individual business operator. Such coefficients or percentages shall be established through sampling, data provided by food business operators or by other methods.







RESULTS "PRIMARY PRODUCTION"

Measured according to COMMISSION DECISION (EU) 2019/1597:

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Primary production	— Direct measurement	— Mass balance		Questionnaires and interviews	
Processing and manufacturing				 Coefficients and production stat 	istics.
				Waste composition analysis	
Retail and other distribution of food			Waste composition analysis	— Counting/scanning	
Restaurants and food services					— Diaries
Households					







RESULTS "PRIMARY PRODUCTION"

Measured according to COMMISSION DECISION (EU) 2019/1597:







• Fisheries: 4.4 %

Livestock: 1.5 %









RESULTS "PROCESSING AND MANUFACTURING"

Measured according to COMMISSION DECISION (EU) 2019/1597:

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Primary production Processing and manufacturing	— Direct measurement	— Mass balance		Questionnaires and interviews Coefficients and production stat Waste composition analysis		
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Restaurants and food services					— Diaries	
Households						

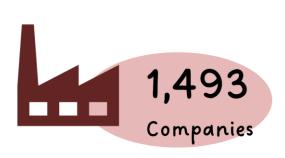






RESULTS "PROCESSING AND MANUFACTURING"

Measured according to COMMISSION DECISION (EU) 2019/1597:













RESULTS "PROCESSING AND MANUFACTURING"

Measured according to COMMISSION DECISION (EU) 2019/1597:

Sector	PUM (t)	PUM (%)	Food Waste (t)	Food Waste (%)
Meat industry	27,037	32.21	1,204	1.43
Fish industry	4,676	10.54	371	0.84
Dairy industry	41,286	12.83	677	0.21
Bread and milling	8,678	5.45	51	0.03
Other foodstuffs	35,406	13.89	5,347	2.10
Beverages	98,321	44.09	70	0.03

Food Waste per capita – 3.53 kg / person in Euskadi







RESULTS "RETAIL AND OTHER DISTRIBUTION FOOD"

Measured according to COMMISSION DECISION (EU) 2019/1597:

ANNEX III

Methodology for the in-depth measurement of food waste

Stage of the food supply chain	Methods of measurement				
Primary production Processing and manufacturing	— Direct measurement	— Mass balance		Questionnaires and interviews Coefficients and production statistics. Waste composition analysis	
Retail and other distribution of food Restaurants and food services Households	45 %	55 %	Waste composition analysis 45 %	— Counting/scanning 55 % — Diaries	

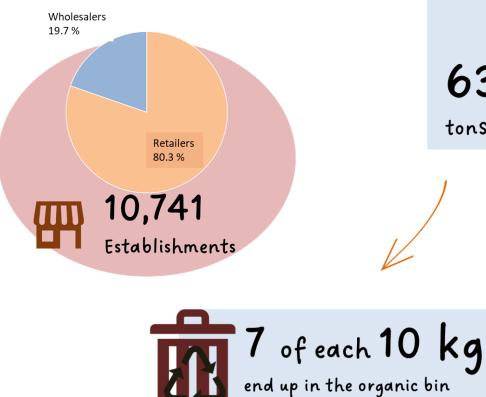




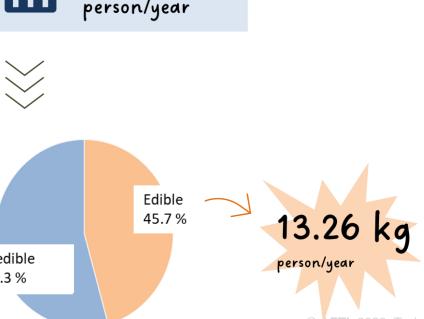


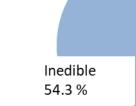
RESULTS "RETAIL AND OTHER DISTRIBUTION FOOD"

Measured according to COMMISSION DECISION (EU) 2019/1597:









79%

AVOIDABLE







RESULTS "RESTAURANTS AND FOOD SERVICES"

Measured according to COMMISSION DECISION (EU) 2019/1597:

ANNEX III

Methodology for the in-depth measurement of food waste

Stage of the food supply chain	Methods of measurement				
Primary production	Direct measurement	— Mass balance		Questionnaires and interviews	
Processing and manufacturing				Coefficients and production statistics. Waste composition analysis	
Retail and other distribution of food			Waste composition analysis		
Restaurants and food services	62 %		62 %	38 % — Diaries	
Households					

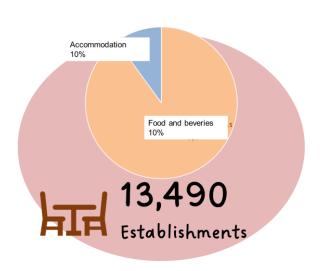






RESULTS "RESTAURANTS AND FOOD SERVICES"

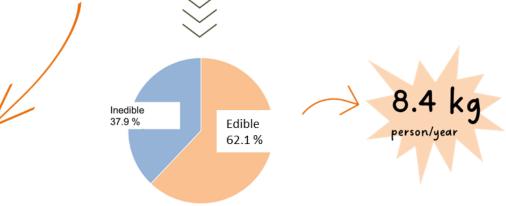
Measured according to COMMISSION DECISION (EU) 2019/1597:

















RESULTS "HOUSEHOLDS"

Measured according to COMMISSION DECISION (EU) 2019/1597:

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Methodology for the in-depth measurement of food waste

Stage of the food supply chain	Methods of measurement				
Primary production	Direct measurement	— Mass balance		— Questionnaires and interviews	1-41
Processing and manufacturing				Coefficients and production state Waste composition analysis	istics.
Retail and other distribution of food			— Waste composition analysis	— Counting/scanning	
Restaurants and food services					— Diaries
Households	54 %				46 %

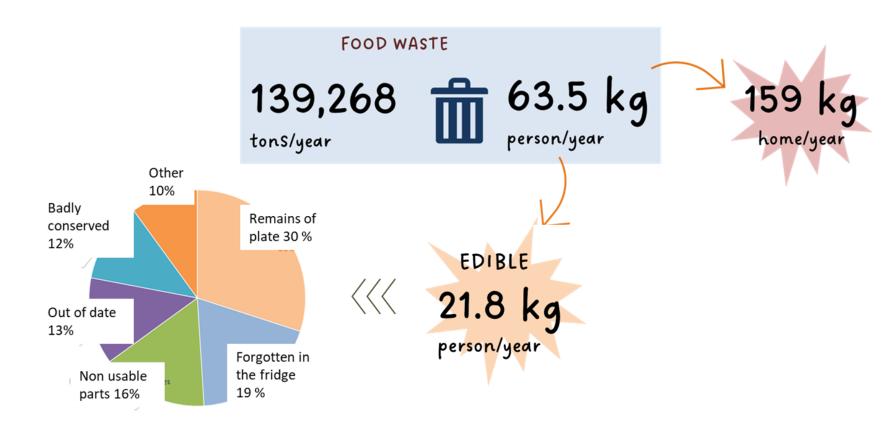






RESULTS "HOUSEHOLDS"

Measured according to COMMISSION DECISION (EU) 2019/1597:









Summary of results









THANK YOU ANY QUESTION?

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