



# ARAGÓN, Spain.

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# Institution

## A regional government: Gobierno de Aragón.

About us. Waste administrative responsibilities



The **authorization, surveillance, inspection and sanction** of waste production and management activities.

*Exclusive powers*

Develop **regional prevention programs** and waste **management plans**

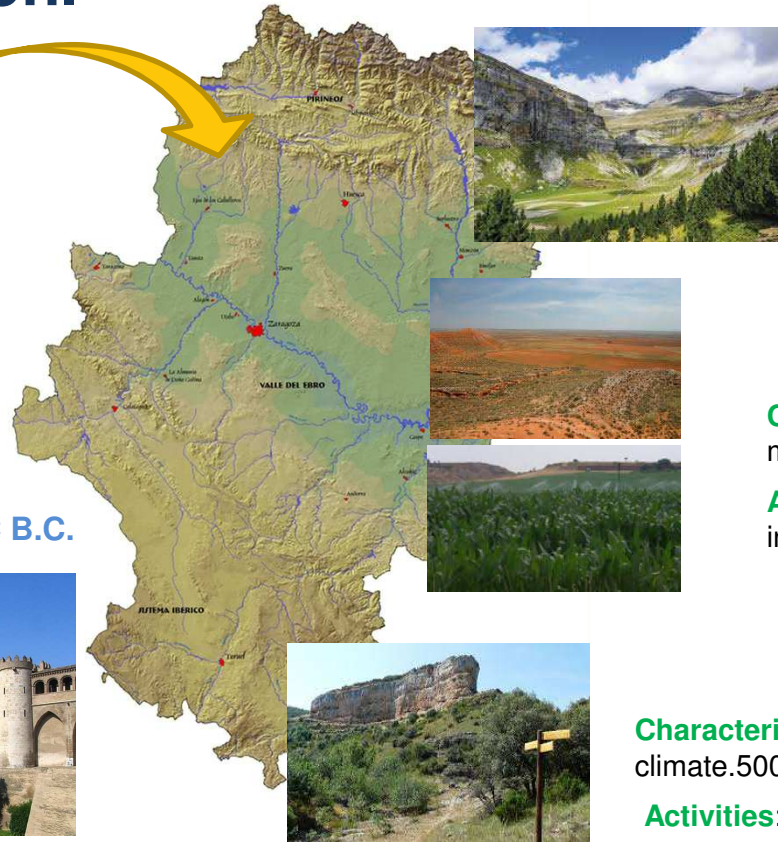
*How the government wants to carry out the progress (in addition to exclusive powers)*

The **registration of information** about the production and management of waste.

*Basic for knowing how the sector evolves, which is essential for planning and coordinating with other AAPP*



# Aragón Region.



## Environmental areas & activities

### Pirineos

**Characteristics:** high mountain, Atlantic alpine climate >1000l/y

**Activities:** Natural Parks, livestock, ski, tourism, hydroelectric power



### Valle del Ebro

**Characteristics:** capital region, large mediterranean basin, arid climate. <350l/y.

**Activities:** irrigate crops, livestock, industries, wind turbin



### Sistema Ibérico

**Characteristics:** mid- mountain, mediterranean climate.500-800l/y

**Activities:** cereal crops intensive farming, turism



## Rich artistic heritage from IV C B.C.



2017 DATA	DISTRIBUTION
48.000 km <sup>2</sup>	10% Spanish Surface
Regional population: about 1.300.000 inhabitants	<b>Very low density:</b> 27.43 hab/km <sup>2</sup>
731 municipalities	80% population lives in 3 towns (>35.000 inh.) and 11 middle towns.

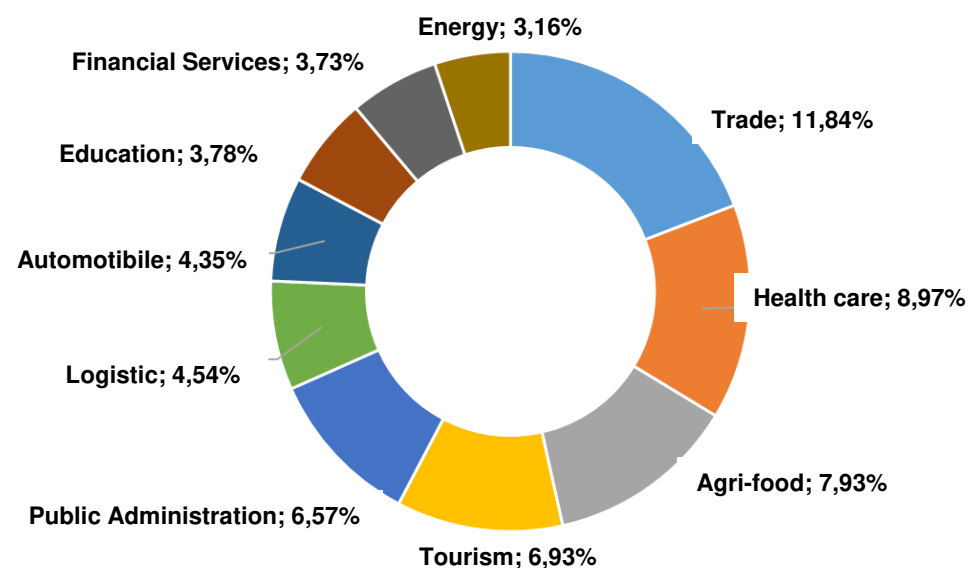


# Aragón Region.

## Socioeconomic indicators.

2017 Economic Data	
<b>Regional GDP:</b>	3,09 % Spain's GDP
<b>GDP per capita:</b>	27.400 €
<b>Main Economic sectors:</b>	<ul style="list-style-type: none"> <li>Automotive</li> <li>Recycled paper</li> <li>Logistic</li> <li>Agri-food</li> <li>Electricity generation</li> <li>Tourism</li> <li>Chemical industry</li> <li>Public services</li> </ul>

Gross Value Added (2017)



## Team & Stakeholders CECI Aragón

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Public technical services

**Directorate General for Climate Change and Environmental Education**

**Environmental Planning Service**

**General Manager– Marta de Santos**

*General Directorate. Directs and coordinates all the actions of the DG*

**Head of Environmental Planning Service – Guadalupe Zárate**

*CECI Project Manager. Directs and coordinates all the actions of the Environmental Planning service*

**Technical senior advisor– Matilde Cabrera**

*CECI Assistant Manager. Technical support to the head of the service*

**Technical junior advisor– Ángeles Pintor**

*Technical support to the head of the service*



Stakeholders

Public Services	Municipality Zaragoza
	Municipality Utebo
	DG Consumption
University	UNIZAR Greencampus
	USJ Greencampus
Social Economy	CEPES <i>Social Economy Cooperative</i>
	Zaragoza Bank Food
	"A todo Trapo" <i>Collection, reuse and recycling of used clothing</i>
Environmental Foundation	ARROPADOS <i>Collection, reuse and recycling of used clothing</i>
	ECODES
Enterprises	EARTH FRIENDS
	SAICA <i>Recycled paper</i>
	ANEFA <i>Aggregates for construction</i>
	BSH <i>Home appliance. Leader company in Spain</i>
	Zaragoza Trade Chamber
Associations and cooperatives	ECOEMBES <i>Company for waste management of plastic, paper and metal packaging</i>
	Aragon Agri-food Cooperatives
	UCO Aragon Consumer association
	FAMCP Aragon Municipalities Federation
Technological Institutes	CERAI <i>Studies and training on sustainable agriculture</i>
	AITIIP <i>Plastic transformation</i>
	CIRCE <i>Energy efficiency</i>
	ITAINNOVA <i>Institute of Technological Research</i>



## Examples related to CECI in Aragón



# bizi Zaragoza public bicycles. Zaragoza municipality.

## GOALS



### SUSTAINABLE MOBILITY

Less traffic in private vehicles in the city to improve air quality and people's health



### EMPLOYMENT

Customer support, bicycle and stations maintenance.

## ACHIEVEMENTS

**130** bike stations y **1.300** "bizis"

**>125** km bizi lane

**25.600** users

50.170 bike trips (25% de BIZI)/día: 2,9% of the total mobility of a working day.

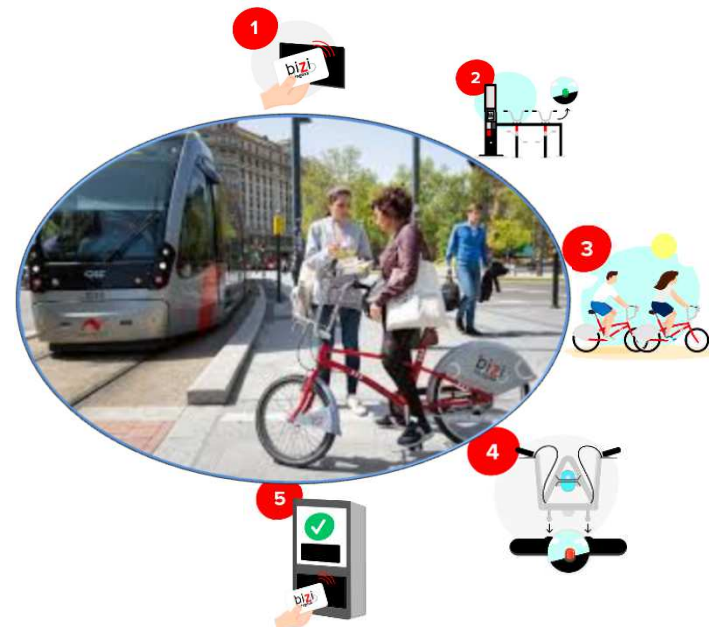
<https://www.bizizaragoza.com/>



## HOW DOES IT WORK?

**Bicycle Master Plan** (2010) provides several actions:

- **Slow traffic areas** of secondary street (**speed < 30 km/h**)
- **Priority bicycles in these areas**
- **Creation of a network of bike and parking lanes and accreditation of users by card**





## aRopa2: Recovery and recycling of used clothes and other textiles

### GOALS

#### 0% USED CLOTHES (Zero waste)



Recover or recycle **93%** of clothing and other textiles that arrive at facilities.



Only **7%** reach waste.



#### GREEN EMPLOYEMENT

**1 new job/50.000kg** of used clothes collected.

### ACHIEVEMENTS

**1.425 t used clothes**  
**Saving of 10.873 t of CO<sub>2</sub>**

**2018**

<http://aropa2.com/>

### HOW DOES IT WORK?

- \* **Container collection**
- \* **Registration, selection and treatment:**
  - Sanitation and conditioning
  - Clothing that can be used is sold as a second hand or given to people at risk of social exclusion
- \* **Clothing destined for recycling** (rags for the industry)



# B/S/H/ Home appliances *preparation for reuse*. On-line sales.

## GOALS

- When people buy a new home appliance **on-line**, BSH recovers it so can be repaired for later sale.
- The identified appliances will be repaired by people trained in **social entities**.
- Generate a **second hand market**.

## ACHIEVEMENTS



Access to larger **volume** of devices

1900-750  
2400-900



**Technical formation**

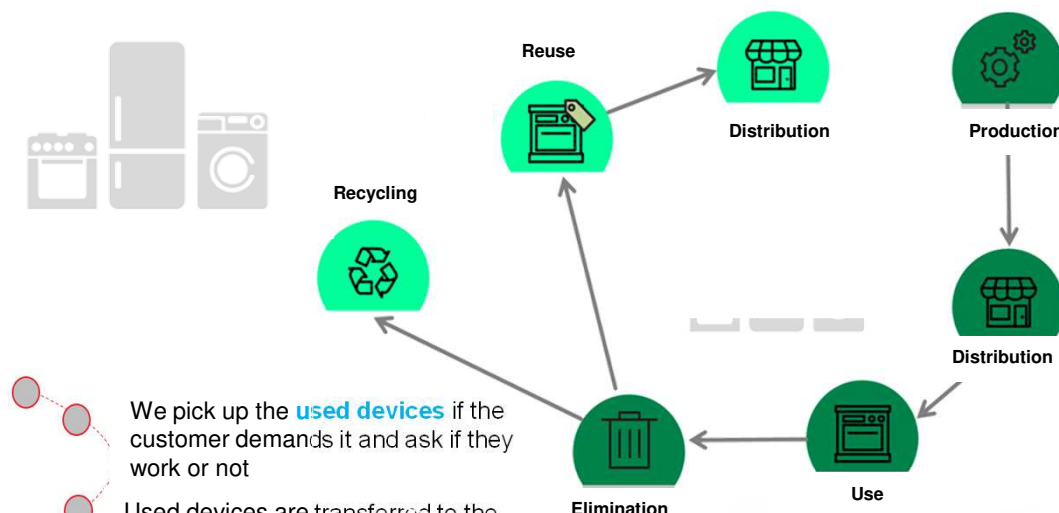
40%  
38%



**Quality, reliability and safety**

Cold appliance  
Large appliance

## HOW DOES IT WORK?



- We pick up the **used devices** if the customer demands it and ask if they work or not
- Used devices are transferred to the **logistics operator**
- They are separated into **two rows**: they work / they don't work
- If it does not work, they are managed through an **authorized waste manager**
- If it works, the **social entity** transfers it to its center





European Union  
European Regional  
Development Fund

**Thank you!**



[www.interregeurope.eu/ceci/](http://www.interregeurope.eu/ceci/)