

# Lixo Sustentável

## Receive As You Throw

Lousada, Portugal

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# MUNICIPALITY OF LOUSADA

- Northern Portugal, Porto District
- Administrative region: Tâmega e Sousa
- Lousada area: 96 km<sup>2</sup>
- Population (2018): 46.815 inhabitants
  - age 0-14: 6.818
  - age 15-64: 33.697
  - age +64: 6.300
- Growing and ageing population
- Strong urban pressure
- Low environmental tradition and literacy (until 2015)





# MUNICIPALITY OF LOUSADA





# MUNICIPAL SUSTAINABILITY STRATEGY



# MUNICIPAL SUSTAINABILITY STRATEGY



## NATURE CONSERVATION

**Environmental  
education and  
scientific literacy**

**Research and  
nature conservation**

**Social  
engagement**

## RESOURCE EFFICIENCY

**Infrastructural actions**

**Internal sustainability**





SUSTAINABLE CITIES PLATFORM

# Transformative Action Award, 2019

## 2019 TRANSFORMATIVE ACTION AWARD: SHORTLIST REVEALED



### Circular Berlin, Germany

*For advancing circular economy in the German capital, through providing platforms for engagement and knowledge exchange and supporting local actors through collaboration*



### Leuven2030, Belgium

*For bringing together all local stakeholders to create a comprehensive roadmap to a carbon-neutral future, and for creating an innovative governance model to implement it*



**Lousada  
Portugal**  
TRANSFORMATIVE ACTION AWARD  
**WINNER  
2019**

### The City of Lousada, Portugal

*For using environmental education to promote environmental practices, inspire and support alternative ways of creating conservation areas and job opportunities, and reconnecting local citizens with their rural landscape*



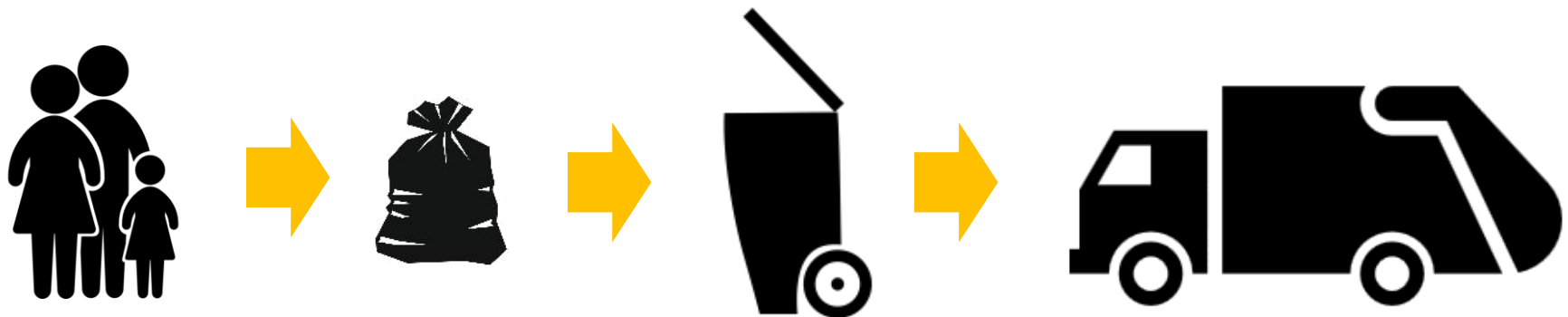


# WASTE MANAGEMENT





## GENERAL WASTE



- Domestic general waste goes directly to landfill, in Lousada.

- Landfill occupation taxes updated yearly.

- No waste sorting is applied.

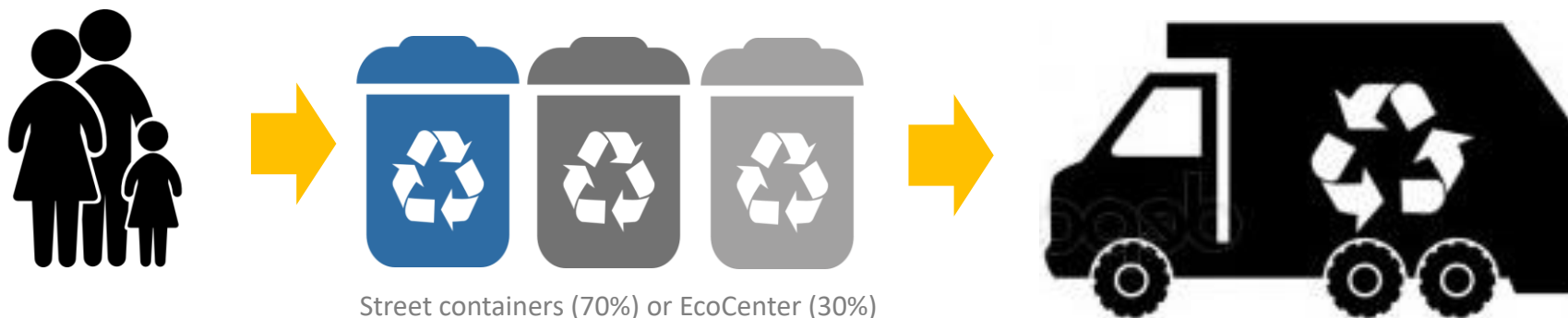
- Biogas is exploited.

- Residual waters are treated.



## WASTE FLOW

### SORTED WASTE



- Sorted waste goes to proper facility, in Lousada:
  - Final sorting by waste type
  - Compacting and shipping
- Recyclable waste is sent to final treatment, transformation and valorization.





# WASTE MANAGEMENT

## MAIN ISSUES

- High occupation rates of **landfill**.
- High amounts of **waste** produced.
- Low **sorting rates**.
- Non attainment of **policy** targets (32 kg/inhab/year)
- Difficult implementation of **PAYT** systems in Portugal.
- Reduced activity of the **EcoCenter**.



## RECEIVE AS YOU THROW

### Pilot initiative



# Reciclar para Valorizar

Usufrua de descontos na fatura dos resíduos urbanos com a entrega de material para reciclagem (papel/cartão, plástico e vidro) no Ecocentro Municipal

#### Mais informações em:

[www.cm-lousada.pt/pt/lixosustentavel](http://www.cm-lousada.pt/pt/lixosustentavel)  
T 255820500 (Divisão de Ambiente)



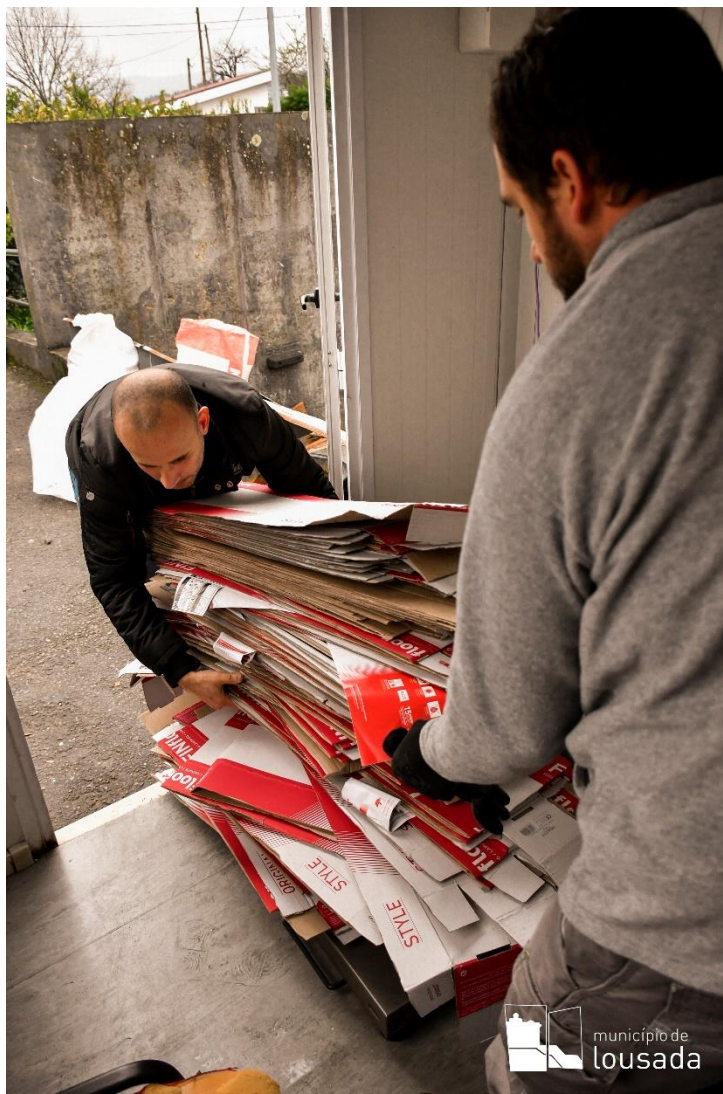
# LIXO SUSTENTÁVEL

Papel – 0,10€

Plástico – 0,15€

Vidro – 0,05€

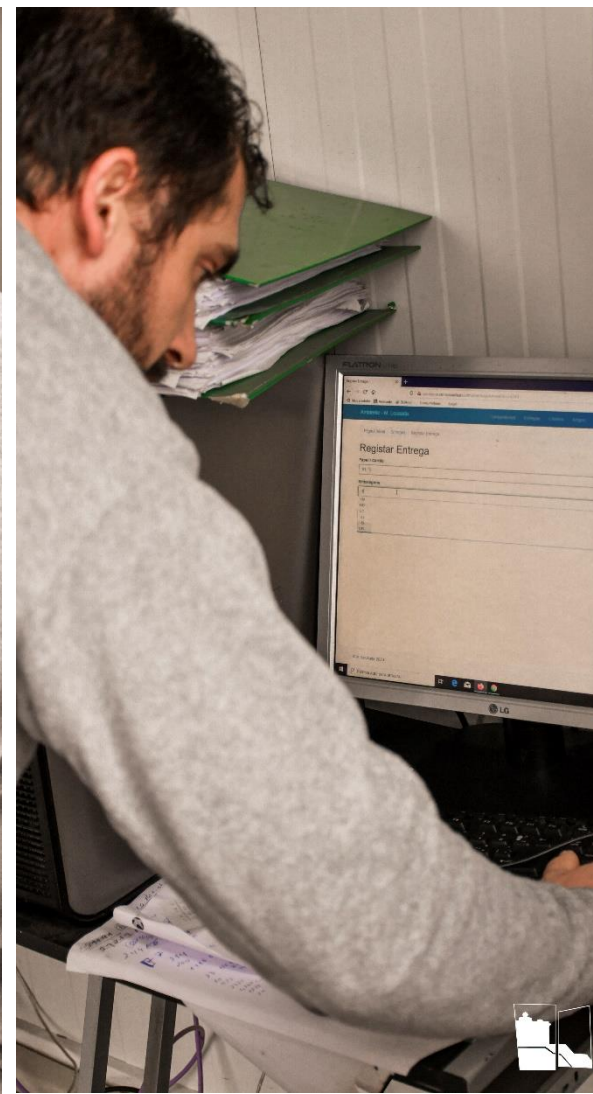
## WEIGHING





# LIXO SUSTENTÁVEL

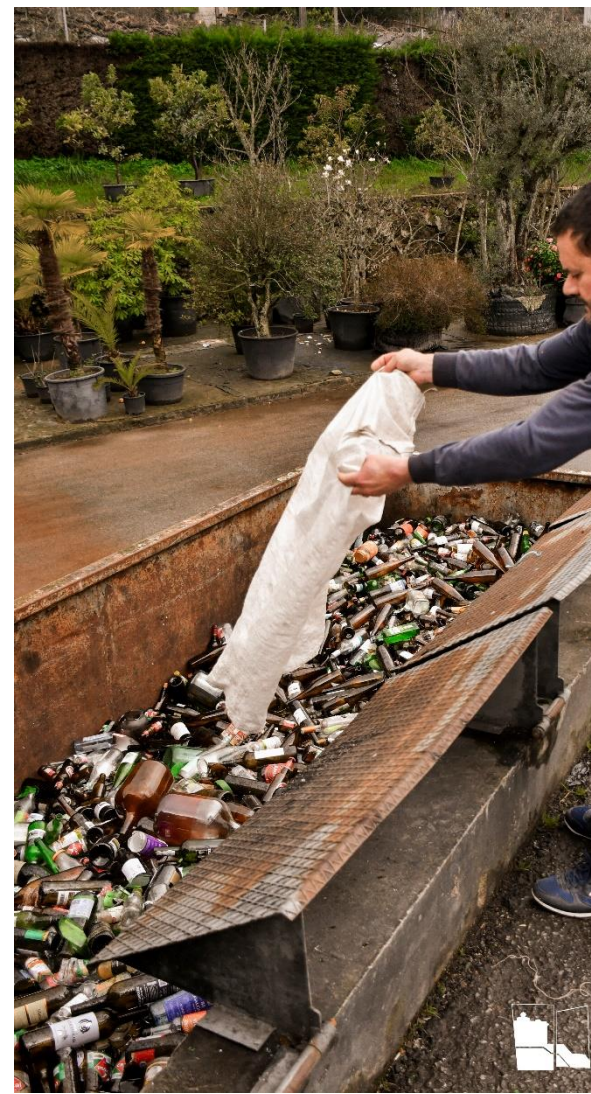
## PROCESSING





# LIXO SUSTENTÁVEL

## TEMPORARY DEPOSIT





# LIXO SUSTENTÁVEL

## OTHER WASTE





## WASTE FINAL SORTING AND SHIPPING





# WASTE MANAGEMENT

## “not sustainable” WASTE



## HOW DOES IT WORK?

- Sorted waste is delivered and weighed at the EcoCenter.
- A record sheet is filled in.
- Waste is accounted at the following rates:
  - Paper/cardboard 0,10€ / kg
  - Plastics/metal 0,15€ / kg
  - Glass 0,05€ / kg
- Amounts are discounted from the municipal waste treatment taxes (average household: 8 – 10 €/month).

[illegible]



## RESULTS

- **1621** participating households (31-01-2020)
  - In 2016, before the project, the EcoCenter received 16 ton of waste.
  - The project started in June 5th 2017:
    - 2017                      41 ton (only half a year)
    - 2018                      217 ton
    - 2019                      467 ton
    - 2020                      42 ton (only january)
- 
- 768 ton** of recyclable waste not going to landfill!

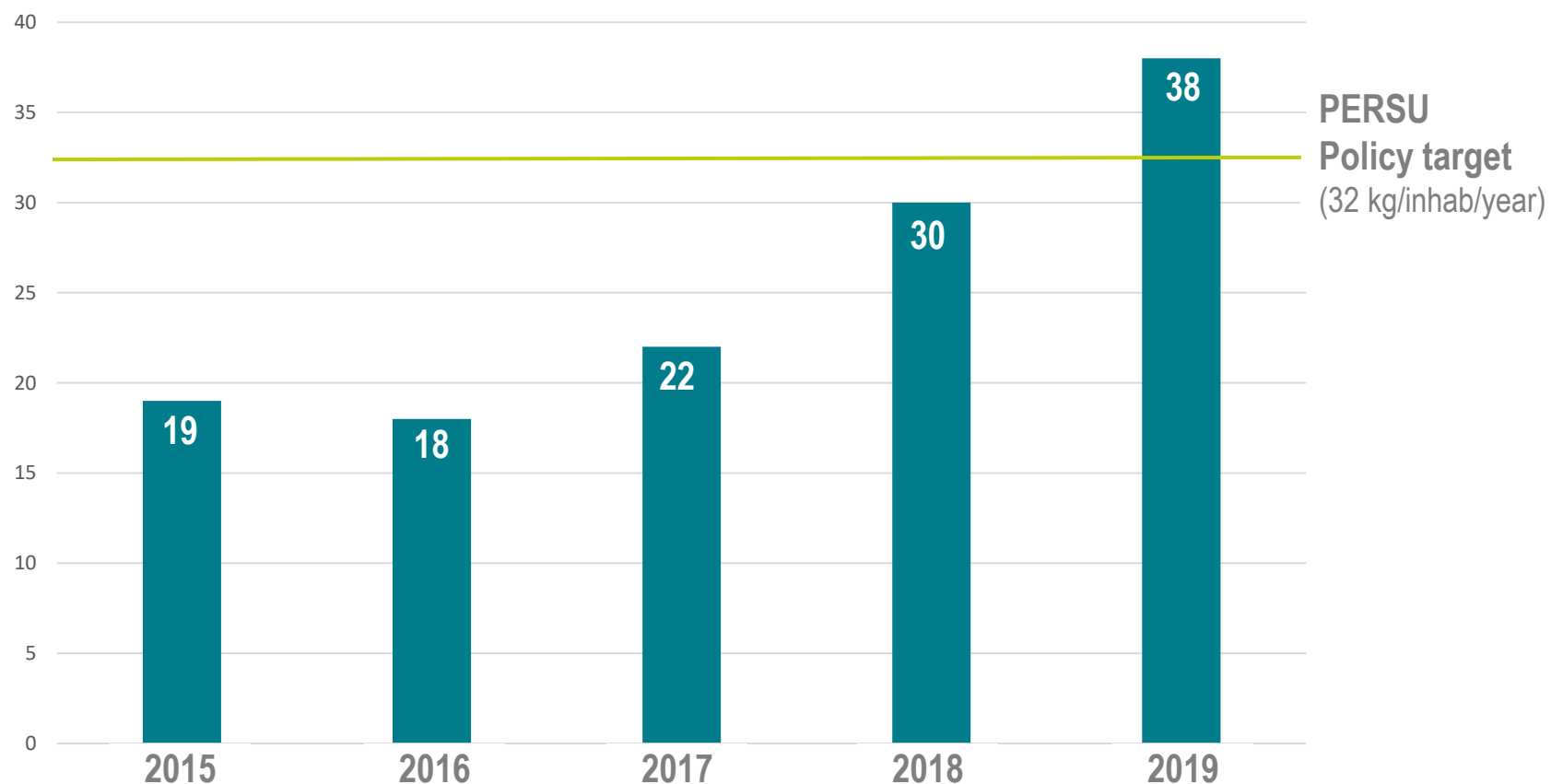


## RESULTS

SISTEMA	N.º DE HABITANTES	DADOS MRRU - RECOLHA SELETIVA (TON.)				RESULTADO 2016 (KG/HAB.ANO) <sup>15</sup>	RESULTADO OBTIDO EM 2015 (KG/HAB.ANO)	META PERSU 2020 (KG/HAB.ANO)
		PLÁSTICO/METAL	PAPEL/CARTÃO	VIDRO	TOTAL			
Castelo de Paiva	16.733	42,94	57,46	139,38	239,78	13	13	32
Felgueiras	58.065	224,38	392,98	575,20	1.192,56	19	18	
Lousada	47.387	157,99	307,68	458,00	923,66	18	19	
Paços de Ferreira	56.340	277,94	385,84	640,95	1.304,72	22	21	
Paredes	86.854	336,09	883,76	1.044,64	2.264,49	24	21	
Penafiel	72.265	276,70	603,70	848,43	1.728,83	22	21	
Global - AMBISOUSA	337.644	1.316,04	2.631,42	3.706,59	7.654,05	21	20	

Sistema AMBISOUSA	N.º de habitantes <sup>12</sup>	Dados MRRU - Recolha seletiva no 3ºT 2019 (ton)						Resultados 3º trimestre 2019 (kg/hab.3ºTr) <sup>13</sup>	Resultados 2º trimestre 2019 (kg/hab.2ºTr)	Resultados 1º trimestre 2019 (kg/hab.1ºTr)	Meta PERSU 2020 (kg/hab.ano)
		PAPEL	PLÁSTICO	METAL	VIDRO	CAMPAN.	TOTAL				
Castelo de Paiva	15 797	22,28	18,86	0,00	67,40	72,92	181,46	11	8	4	-
Felgueiras	56 950	162,90	87,74	2,22	220,72	72,92	546,50	9	8	6	-
Lousada	46 900	175,80	91,84	2,80	222,24	72,92	565,60	11	9	8	-
Paços de Ferreira	56 838	185,46	109,26	5,58	243,62	72,92	616,84	10	8	7	-
Paredes	86 263	188,50	159,90	13,52	376,82	72,92	811,66	9	6	7	-
Penafiel	70 333	225,88	88,68	6,06	310,62	72,92	704,16	9	8	7	-
Global - AMBISOUSA	333 081	960,82	556,28	30,18	1 441,42	437,51	3 426,21	10	8	7	32

## RESULTS: SORTED WASTE KG / INHABITANT / YEAR



# LARGE MEDIA COVERAGE



Projecto Lixo Sustentável do Município de Lousada

Entregue seu lixo reciclável (Papel, Cartão, Plástico, Vidro) no Ecocentro em Boim, Lousada e terá grandes descontos na sua fatura da Água.

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total a  
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o cênt



Lixo Sustentável - RTP Jornal da Tarde



RTP.PT

## Reciclar dá desconto nas faturas da água

Por cada quilo de papel, plástico ou vidro entregue no ec...



ECONOMIA

25/07/2018 admin 0

## Lousadenses trocam lixo separado por descontos



# Lousada, an integrative perspective



Ano do Ambiente  
e Biodiversidade  
**VIVER LOUSADA 2017**



## Thank you!

