Citizen science action for optimising the separate collection of the organic fraction of municipal solid waste (OFMSW) in Lazio region

STUDY RESULTS

EDUCATIONAL GAME TO TACKLE THE COMPLEX CHALLENGES OF CIRCULARITY

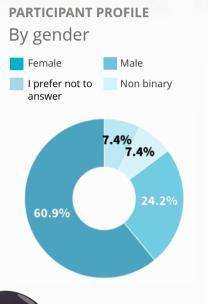
By analyzing users' decisions throughout the HOOP Trainers game, we aim to gain a deeper understanding of the citizens' perspectives on biowaste separation, their acceptance of products derived from it, and their recommendations for constructing greener and more circular cities and regions.

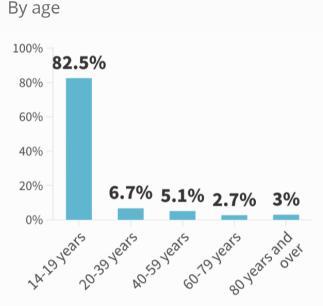


HOOP TRAINERS PLAYERS

296

PERIOD 23/03/2023 06/07/2023





Presented below are the results obtained in Murcia, which can be analyzed within the Biowaste Club of the region. These findings serve as a basis for transforming data into actionable improvement proposals, fostering collaborative efforts to cocreate a more circular municipality.



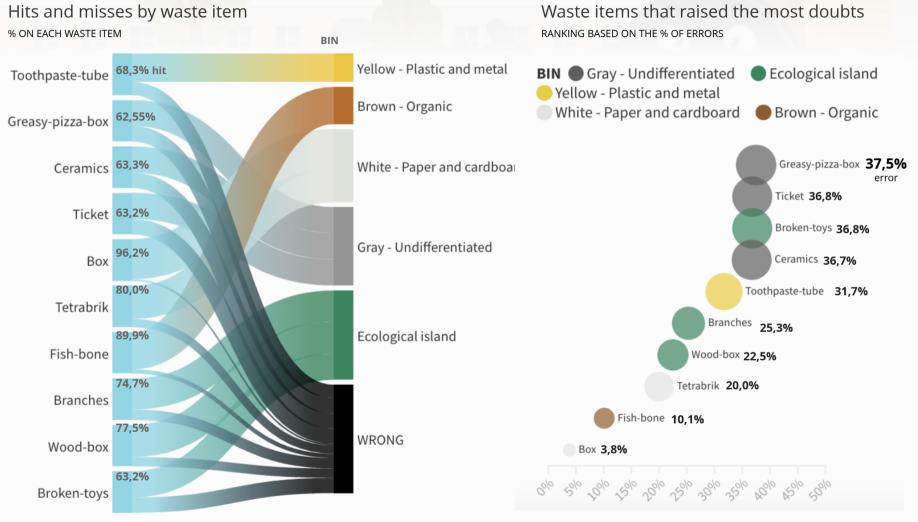
HOOP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°101000836



MISSION 1

OBJECTIVE: Properly sort 10 waste items into their respective bins









MISSION 1

OBJECTIVE: Properly sort 10 waste items into their respective bins

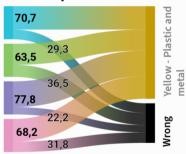
Hits and misses by waste item

DATA IN % WITH RESPECT TO THE TOTAL OF THE SAME GENDER

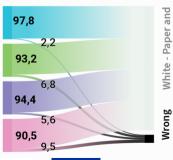




Toothpaste-tube



Box

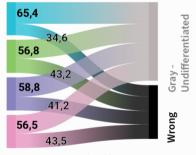


ANC

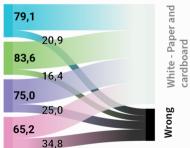
AZIO

cardboard

Greasy-pizza-box

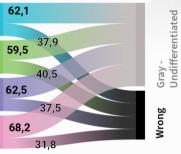


Tetrabrik



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Fish-bone

8,8

12.2

17.6

Wood-box

91,2

87,8

82,4

95,5

79,4

75,7

82,4

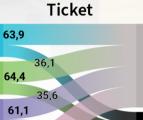
63,6

20,6

24,3

17,6

36.4





Branches

38.9

36,4

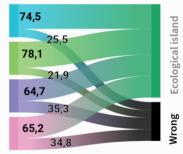
63,6

Brown - Organic

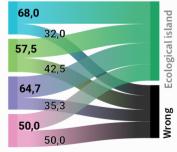
Nrong

Ecological island

Wrong



Broken-toys









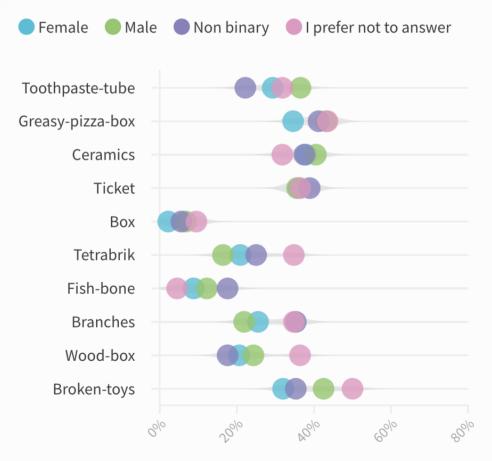


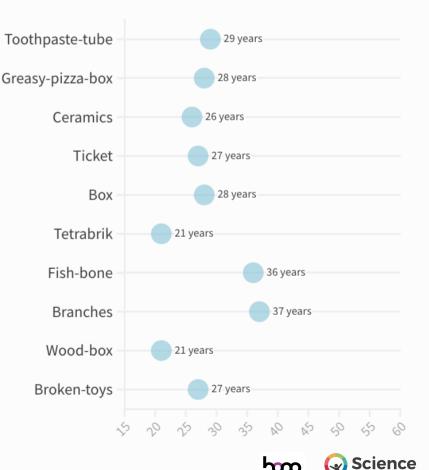
MISSION 1

OBJECTIVE: Properly sort 10 waste items into their respective bins

Wrong answer based on gender

DATA IN % WITH RESPECT TO THE TOTAL OF THE SAME GENDER







MISSION 2

OBJECTIVE: Opinions on 4 questions regarding domestic waste separation

189 PARTICIPANTS

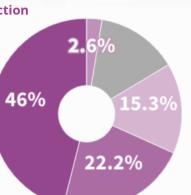
I A710



Key motivations behind separate waste collection

Reduce the environmental impact of waste

Turn waste into useful products
Pay less taxes
Keep our city beautiful
None, I'm not motivated
enough to recycle





Lack of information

Lack of space at home

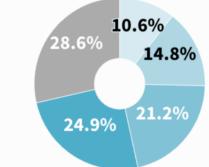
Distrust, all the waste is

None of the above

mixed

Lack of time

Primary obstacles to waste separate collection indicated by users



What actions should an entrepreneur

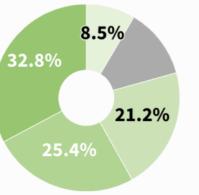
focus on in order to improve the quality



How the professionals could differentiate the organic fraction produced before cooking

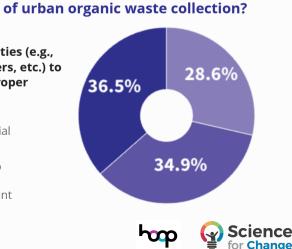
New Municipal service with dual organic waste collection.

- I recycle organic waste with a compost bin.
- I choose suppliers that help me reduce waste and dry refuse.
- I use a continuous bag system for selective waste collection.
 - None of these options satisfies me



Organize school activities (e.g.,

- Organize school activities (e.g., exhibitions, newsletters, etc.) to educate citizens on proper recycling.
- Promote environmental education for raw material recovery.
- Information campaign to enhance organic waste collection in the restaurant sector.





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MISSION 2

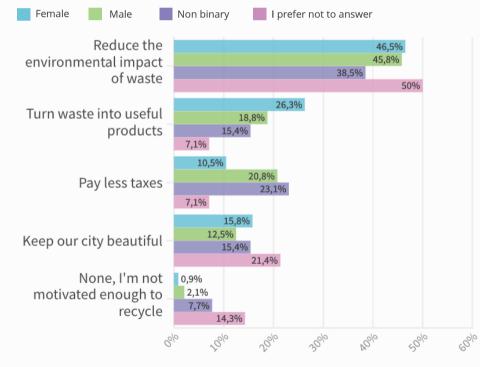
OBJECTIVE: Opinions on 4 questions regarding domestic waste separation



Key motivations behind separate waste collection

Answer preference based on gender

DATA IN % WITH RESPECT TO THE TOTAL OF THE SAME GENDER









MISSION 2

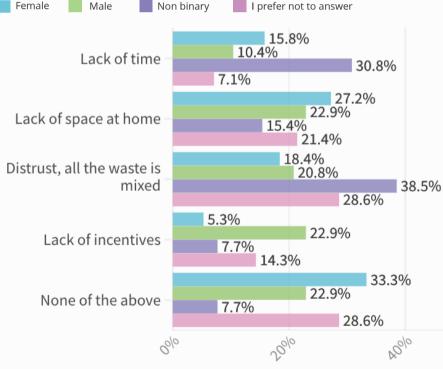
OBJECTIVE: Opinions on 4 questions regarding domestic waste separation

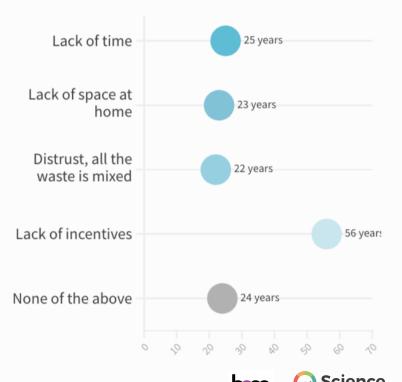


Primary obstacles to waste separatecollection indicated by users

Answer preference based on gender

DATA IN % WITH RESPECT TO THE TOTAL OF THE SAME GENDER







MISSION 2

OBJECTIVE: Opinions on 4 questions regarding domestic waste separation

produced before cooking?

Ø

Answer preference based on gender

DATA IN % WITH RESPECT TO THE TOTAL OF THE SAME GENDER

Female Male Non binary I prefer not to answer New Municipal service 33.3% 31.3% with dual organic waste 38.5% collection. 28.6% I choose suppliers that 25.4% 12.5% help me reduce waste 7.7% and dry refuse. 28.6% 23.7% I recycle organic waste 31.3% with a compost bin. 7.1% I use a continuous bag 6.1%10.4% system for selective 7.7% waste collection. 21.4% 11.4%None of these options 14.6% satisfies me. 7.7% 14.3% 2010 20010

The median age based on the provided responses

How could professionals differentiate the organic fraction

38.5%





MISSION 2

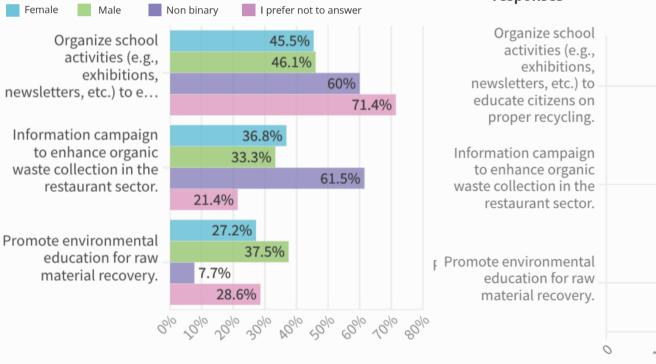
OBJECTIVE: Opinions on 4 questions regarding domestic waste separation



What actions should an entrepreneur focus on in order to improve the quality of urban organic waste collection?

Answer preference based on gender

DATA IN % WITH RESPECT TO THE TOTAL OF THE SAME GENDER







LAZIO

MISSION 3

OBJECTIVE: Select one bioproduct type from four proposed options

176 PARTICIPANTS







LAZIO

MISSION 3

OBJECTIVE: Select one bioproduct type from four proposed options

Answer preference based on gender

DATA IN % WITH RESPECT TO THE TOTAL OF THE SAME GENDER



ary I prefer not to answer



