



HOUSEHOLD WASTE MANAGEMENT

Household waste

Examples for more sustainable waste management



grup d'estudi
i protecció
dels ecosistemes
catalans



Until now, we have always talked about the 3R's:

REDUCE - RECYCLE - RE-USE



We have to start thinking about the 6R's:

REDUCE + RECYCLE + RE-USE

+

RETHINK + REPLACE + REPAIR



RETHINK / REINVENT : the products and their functions



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REPLACE / REBUY : the dangerous products



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REUSE / REPAIR : design how to facilitate the reparation and extend the life of the products

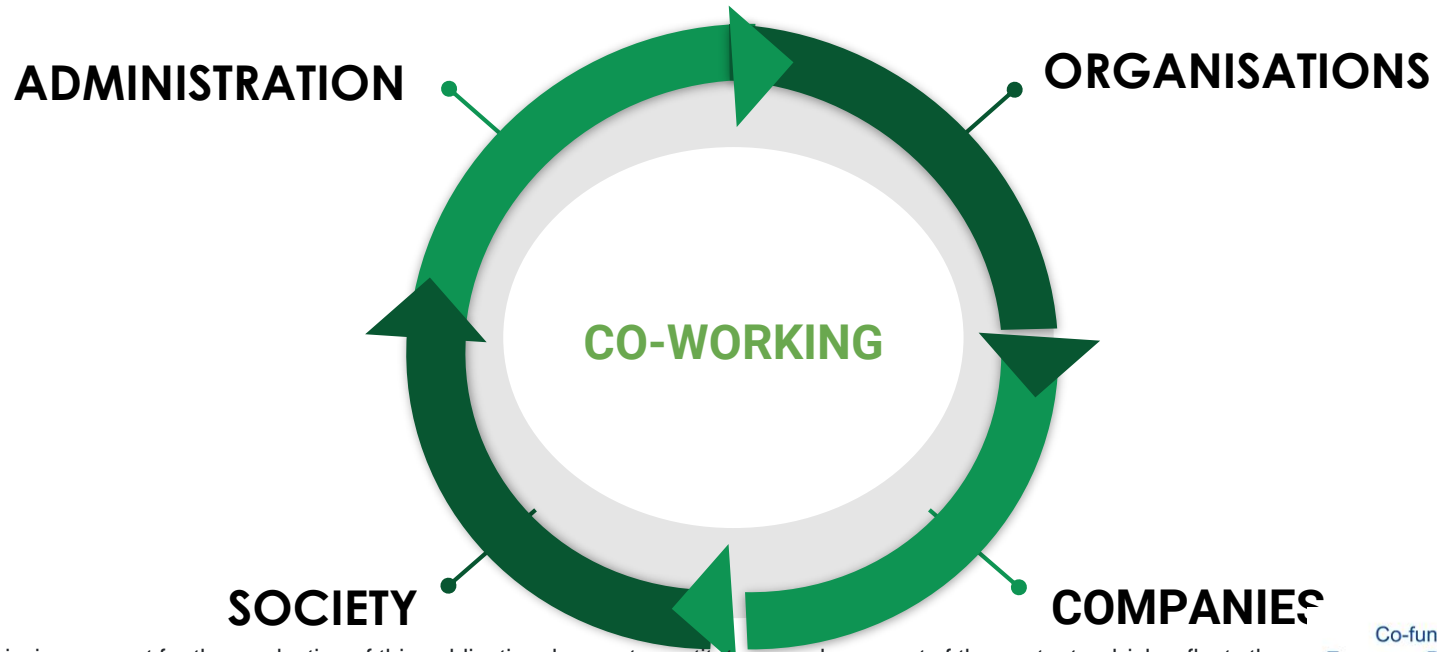


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Examples of local projects



The importance of implementing waste management in the education system to generate new job opportunities

Integrate the management of waste in the current educational system = generate new professional outings + promote the green economy.



Technological Waste Centre in Barcelona

Objectives:

To create jobs for young people at risk of social exclusion in the field of recycling and reusing new technologies.



Technological Waste Centre in Barcelona

How was it achieved? **Foundation + City Council + eReuse**

Management: **Fundació Trinijove**, foundation working with people at risk of social exclusion.

Space provided by **Barcelona City Council**.

Linket to the [eReuse programme](#): It promotes circular economy in the field of electronics through communities of activists, local groups, researchers, universities, educational centers, companies, social economy entities ...



Smart Citys

Intelligent waste collection system

- USE OF ICTs
- Optimisation of the collection service
- Container collection control to adapt collection routes to real needs
- To know the volume of waste in real-time



Smart waste collection system in Sant Cugat

Installation of volumetric detectors inside the containers.

- Adapt timetables and collection route.
- Avoid bad odors by decay in organic containers. Works with data of the temperature and days of its final emptying.
- Calculation of weight of each container (maximum error 5kg.)
- Information of the citizen behavior in the generation of waste
- Frequency of container fillings according to fraction



RESULT =

**less trucks on the road,
economic savings,
less traffic,
less pollution and less noise.**



AMBITECA - Sant Cugat del Vallès

An innovative concept of waste collection center for **exchange, reuse and education.**



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The **Exchange system** works by points (which **vary depending on the environmental impact of the delivered object**) and which can be exchanged for objects of interest.

All second hand items are placed as if it were a store.

If somebody does not have Exchange points, that person can “purchase” an object paying a symbolic Price that will be assigned to a social project.



AMBITECA - Sant Cugat del Vallès



All the objects in the **AMBITECA** are properly visible and classified **IN A WEB PORTAL AND APP**

www.stcrecupera.com, where you can also upload objects that you don't need to be exchanged or given directly



Smart containers - àrea metropolitana de Barcelona



Domestic and commercial waste collection.

Sistemes d'obertura prèvia **identificació** que han d'obrir-se amb una **targeta** o amb el **mobil**.



Packaging return



Cadaqués was the first municipality in the entire Mediterranean area to install a packaging return system.

The pilot test, carried out in 2013, was a success, with more than 42.000 packages collected.

