



Recycle,

Reuse or Refuse



The reality of climate change and environmental degradation caused by the overuse of natural resources and excessive waste generation cannot be disputed from a scientific point of view. These effects are already present in people's daily lives.

In the <u>Strategic Plan for Sustainability and Social Commitment 2023-2026</u>, in the section on Environmental Management, the specific objective of promoting a programme to prevent the generation of waste and food waste, reducing single-use plastics and reusing and recycling goods that cannot be disposed of at source was

established. To achieve this, a series of specific actions and measurable indicators were established to reduce waste and identify areas for improvement.

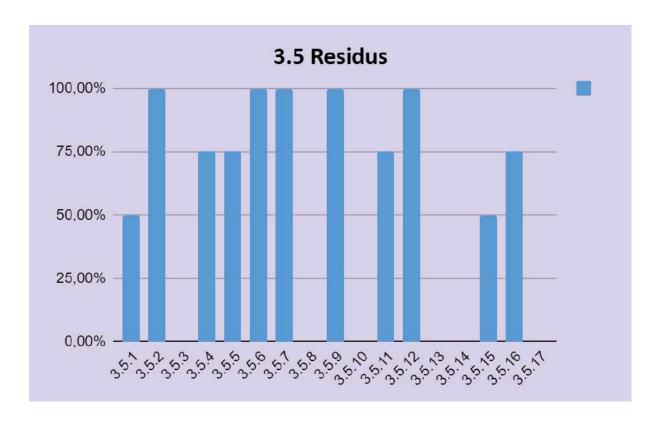


Figure . Waste indicators of the Strategic Plan for Sustainability and Social Commitment

The UIC Barcelona **3R programme: Reduce, Recycle, Reuse or Refuse,** is a measure that is part of the **circular economy** and whose objective is to reduce the waste we generate in all our personal activities and at the university.

To this end, a **series of initiatives** have been taken within the university to raise awareness among the university community of the importance of reducing, recycling and reusing or rejecting material.



Reducing means decreasing the amount of waste we produce. To do this, we present the measures that have been established at UIC Barcelona and we can significantly reduce our environmental footprint:

1. Establish environmental guidelines that help educate the university community on how to reduce and recycle paper: only print documents when

- absolutely necessary, use recycled or used paper, whenever possible, print on both sides and in black and white, recycle paper that cannot be reused in the correct bin and deposit confidential documents in their corresponding containers.
- 2. Establish sustainability criteria as part of the reprographics service's current contracts: set up printers to print double-sided and in black and white by default.
- 3. CercaUIC is the UIC Barcelona university library's discovery search tool. You will find all the information related to the resources that are part of the library collection and access to digital content. It received the Customer Sustainability Award from Lyreco Iberia. This recognition is thanks to its continuous effort to optimize purchases, either by increasing the size of online orders or by grouping orders together. This helps reduce the use of paper and ink and avoids the delivery of a single product.
- 4. UIC Barcelona has reduced the volume of printed posters and information leaflets and has opted to generate online resources and introduce informational screens in strategic zones (Figure 1).
- 5. PhD students are asked if they want their doctoral thesis in an online format so as not to print it and waste paper.
- 6. Develop initiatives to reduce the consumption of plastic bottles such as:
 - a) Discounts on the price of the university menu corresponding to the cost of a plastic bottle of water.
 - b) Installation of new water fountains in the Barcelona campus cafeteria and the introduction of water jugs.
 - c) Introduction of "Bezoya" water bottles, which are made of 100% recycled material, in all vending machines on the Barcelona campus.
 - d) On-screen awareness campaigns around the university to reduce the use of plastic bottles.
- 7. Joint actions are being carried out with other universities and entities (Conference of Rectors of Spanish Universities (CRUE), Residuo Zero, etc...) to promote policies aimed at reducing waste, including plastic packaging.
- 8. In Iradier's restaurant, named Eurest, it has been put in practice a specific programme to reduce food waste. Powered by Compass Group, "Stop Food Waste" seeks to fight food waste and raise global awareness of the importance of reducing the amount of food that goes unused (Figure 2).



Figure 1. Informational screen announcing the university's current activities



Figure 2. "Stop Food Waste" poster in Eurest, Iradier's restaurant



Recycling involves processing materials like paper, glass, and plastics so they can be transformed into new products. This helps conserve resources and reduces the volume of waste sent to landfills.

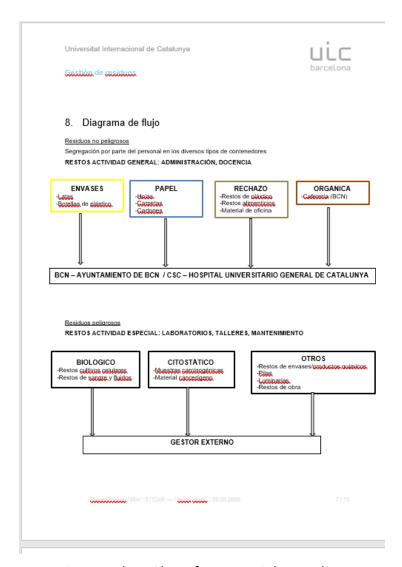


Figure . Flow Chart for Material Recycling

- 1. The university has implemented recyclable containers in both Campus Barcelona and Campus Sant Cugat, allowing students and faculty to easily determine what and how they can recycle. Additionally, this program allows the main types of recyclables (plastic, paper, and organic) to be placed in different containers, making the differentiation of matter easier (Figure 1).
- 2. Establish sustainability criteria in the material offered by the university: the

- advertising brochures have an FSC paper certificate (chlorine free) and are made with ecological inks.
- 3. The university agendas are also made of recycled paper with FSC certificate.
- 4. The university diaries handed out at the beginning of the academic year have been changed, replacing the plastic cover with one made from recycled cardboard.
- 5. A Advent calendar for disabled people at UIC Social Day made of recycled rolls of toilet paper (Figure 2).
- 6. Promotion of recycling plastic bottle caps and batteries by placing specific containers (Figure 3).
- 7. Water cycle simulation and a greenhouse with water bottles. Subject: Teaching of Experimental Sciences (Figure 4).



Figure 1. Containers for other types recyclables in both UIC Campus Barcelona (left) and Campus Sant Cugat (right)



Figure 2. A recycled Advent calendar



Figure 3. Containers for plastic bottle caps and batteries



Figure 4, 5. Water cycle simulation and a greenhouse with water bottles. Subject: Teaching of Experimental Sciences



This principle encourages finding new ways to use items instead of discarding them. By repurposing or donating items, we extend their lifecycle and decrease the demand for new products.

- 1. The university's promotional bags are made of fabric so they can be reused (Figure 6).
- 2. Cloth bags, which are reused instead of plastic, are used to send packages between campuses, reducing the consumption of plastic bags.
- 3. Plant residues from los Magnolios of UIC are reused to create floral centers (Figure 7).
- 4. The UIC has the university rent all its computers to promote the reuse of digital services.



Figure 6. The university's promotional bags



Figure 7. Reuse plant waste from the magnolia trees for floral centers



Refuse is also included as a fourth R, which emphasizes the importance of rejecting unnecessary items and single-use products to further minimize waste.

- 1. Conduct research to replace chlorinated paper in the university. The contract signed with the university's paper supplier (Xerox) was renegotiated to introduce ecological paper in all UIC Barcelona photocopiers.
- 2. Internal mailing of documents between campuses has been digitalized with a proprietary platform to avoid wasting paper.
- 3. Change single-use material for more sustainable material in the Iradier cafeteria, such as cups, straws, coffee stirrers, lids and salad bowls. The paper for the trays and the napkins are made of recycled paper and the plastic cups

- have also been replaced by cardboard cups in all university vending machines (Figure 8).
- 4. Initiative to eliminate plastic water bottles from academic meetings and events is already in force.
- 5. The plastic university card has gone digital, reducing the use of plastic and facilitating its use and portability via mobile.



Figure 8. Sustainable cardboard cups (cafeteria and vending machines)

Waste Actions and Indicators of the Strategic Plan for Sustainability and Social Commitment

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