

Tknika

Euskadiko LHren Ikerketa Aplikatuko Zentroa
Centro de Investigación Aplicada de FP Euskadi
Basque VET Applied Research Centre

Case Report on the piloting of SMALEI in TKNIKA



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Action plan: Waste management

Area: Environmental sustainability of the institution

Video:  [Waste Management.mp4](#)

Short description

Tknika generates various types of waste. As a research centre, it not only produces general waste but also specific types of waste requiring specialised management by authorised waste handlers. In this action plan, those responsible for waste management in each area have convened and agreed on several measures to enhance the coordination, documentation, storage, and reduction of waste.

From ideas to action, direct measures and action plan

Waste management and recycling are already well-established activities at the centre. General waste is recycled, with several bins provided for separate collection. However, a recent self-assessment revealed that although the basic practices are in place, there is substantial potential for improvement. This is primarily due to the fact that the quantities and types of waste generated fluctuate based on the specific areas of innovation being developed. Consequently, there is a need for more adaptive and comprehensive waste management strategies that can effectively address these variations and enhance overall efficiency and sustainability in waste handling and recycling processes at the centre.

Testing in Practice or Prototyping

Putting ideas into practice

 Time frame: One day - several months
 Staff involved

- Management area member
- Communication Manager
- Biociencias and Sustainability Lab members
- Janitor
- Computer maintenance technician
- Researcher in 3D printing additive manufacturing
- Researcher in additive manufacturing

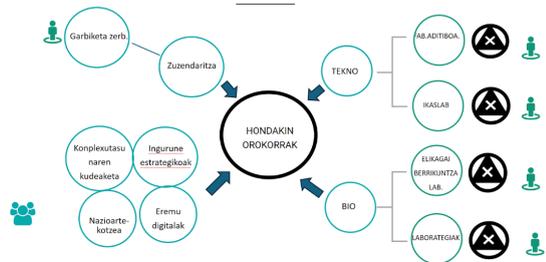
1) Analysis of actual management

 Time frame: 1-2 hours

First of all, existing information was gathered and analyzed in consultation with the person in charge of coordination of waste management.



Waste producer areas fulfill a general document and Management area is in charge of gathering the information of waste. It was analyzed if this document is practical or it had to be modified to be an efficient tool for waste management. Waste has been characterized and a diagram was done.



General waste is recycled in several bins (paper-packages-batteries and specific waste created in applied research projects (hazardous and no hazardous) is managed by an authorized waste manager.

2) Waste management reflexion and improvement suggestions

Time frame: 1 hour

General meeting was organized with all waste producers and involved staff for their feedback. The main objective was to study possibilities to update and redesign waste management. 4 different areas for improvement were discussed: coordination, documentation, collection and reduction.



Several improvements were agreed:

- Actual documentation template is OK
- Timeframe for renewal the information
- Timeframe for waste collection
- Waste storage area
- Reflection on the waste generated:
- Consider working with non-toxic or more sustainable materials

3) Implementing improvements

Time frame: next months



The agreed-upon improvements have been implemented. These efforts collectively contribute to a more efficient, sustainable, and responsive waste management system at the centre.



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