

# Recycling of artificial turf using biological methods



To boost the **circular economy** in the artificial turf sector, increasing the recycling rates in an effective way obtaining **quality recycled materials**.

## TASK 1

### RESEARCH IN THE DEGRADATION/ RECYCLING OF THE BAKING MATERIAL

Selection of enzymes and microorganism insulation



Degradation tests and chemical recycling



## TASK 2

### RESEARCH IN THE PRE-CONSUMER RECYCLED SAMPLES OF ARTIFICIAL TURF (LABORATORY SCALE)

Enzymatic degradation

Biologic degradation



Chemical recycling of PU

Mechanical recycling and characterization

acteco

### RESEARCH IN RECYCLING OF REAL ARTIFICIAL TURF SAMPLES (INDUSTRIAL SCALE)

## TASK 3



To develop recycling processes to achieve **PP, PET, PE, PU and rubber** from artificial turf waste.