



SISTERS

Systemic Innovations for a Sustainable reduction of the European food waste

CURRENT ISSUES IN THE AGRIFOOD VALUE CHAIN THAT LEAD TO FOOD LOSS AND WASTE & SISTERS PROPOSED SOLUTIONS TO THESE CHALLENGES:

PRODUCTION



Food surplus represents up to **20%** of the EU agricultural production due to precise/strict market demands to farmers.



SISTERS will design the **1st European Short Chain Platform** for farmers to sell their discarded production.



LOGISTICS



Handling & transportation with standard containers that **do not reproduce the ideal conditions** of respiration rates for each type of food product, reducing its quality.



Smart and reusable food containers will be designed to diminish food losses during transportation.



PROCESSING



Inefficient performance of biobased food packaging, with improvable shelf-life, O barrier, strength, stability and compostability.



A set of **bio-based & home-compostable packaging solutions** will be created to improve the preservation and quality of food.



MARKETING



Retailers/wholesalers discard food due to inadequate cold chain/quality & **unsustainable practices from retailers/wholesalers** in the marketing stage.



A novel **SISTERS Seal of Excellence** will promote sustainable practices among retailers.



CONSUMPTION



Food waste per person in the EU ranges between 101-125 kg per year due to exceeded expiration date, lack of awareness, food appearance or label misinterpretation.



A **QR and dynamic labelling** will be incorporated in the packaging to impact on retailers and consumers sustainable awareness.



WHAT is the GOAL?

SISTERS will be a key EU project addressing the problem in a holistic way, reducing Food Loss & Waste by 27.4% and CO₂ emissions by around 20% in the case studies.

18 partners & 3 linked third parties from 8 countries



sisters_eu



Sisters



sisters_eu



Sisters

WWW.SISTERSPROJECT.EU

PROJECT COORDINATOR
carolina.penalva@aitiip.com



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 101037796