



SISTERS

Compostable and/or biodegradable materials for food packaging

SISTERS Project
Practice Abstracts

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The problem

Plastic food packaging has a huge environmental impact worldwide. The low recycling rate of single-use plastics contributes to the contamination of organic waste streams.

The solution

Meet SISTERS, an EU-funded project making eco-friendly food packaging that fights plastic pollution. Their special packaging breaks down with natural microorganisms, perfect for your backyard compost heap.

SISTERS' packaging meets strict compostability standards, ensuring it degrades properly.

They're working hard to get their packaging certified as home compostable, making it easy for you to make a positive impact on the environment.

Benefits



Good performance for food products without strict barrier properties.



Minimize plastic contamination due to conventional plastics.



Novel materials for food packaging that have a low recycling rate.



Better end of life: compostable at home.



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PRACTICAL RECOMMENDATIONS



Recommendations for selecting sustainable food packaging and preventing food and plastic waste at the production stage:

- Certain food packaging **benefits from biodegradable or compostable materials.**
- **Fast-food products with short use timeframes** are ideal for such materials, as the contaminated plastic they use usually cannot be recycled.
- While all compostable products are biodegradable, **not all biodegradable products are compostable.**
- Claims of biodegradability or compostability **require specific information and certification.**
- Home compostable materials, like those in SISTERS packaging, **help prevent food and plastic waste.**



About SISTERS and this Practice Abstract

This practice abstract was elaborated in the framework of the SISTERS project, based on the EIP AGRI practice abstract format. © 2023

Project dates: from November 2021 to April 2026.

Goal: to systemically reduce food loss and waste in the main stages of the food value chain in Europe through innovations targeted to each stage of the chain.