# BIO-BASED, BIODEGRADABLE AND COMPOSTABLE MATERIALS OFFER A PRAGMATIC AND READY-TO-USE CONTRIBUTION TO THE WORLD'S PLASTIC POLLUTION PROBLEM

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## **SPHERE GROUP**

Founded in 1976, SPHERE is a French familyowned group and the **European leader in household packaging**.

**BAGS**: for waste collection, fruit and vegetables, freezing, etc.

#### Kitchen WRAPPING, PAPER and TRAYS.

Specialized in professional food and non-food packaging.

Among the **world's leading producers** of biobased, biodegradable and compostable materials and products.



#### **15** production sites, all in Europe, including 7 in France

SPHERE manufactures and distributes a range of innovative products with lower environmental impact using:

- Recycled PE (over 50% of total production)
- Bio-based PE
- Bio-based, biodegradable and compostable resins
- Paper



## **EUBP** - ASSOCIATION REPRESENTING THE INTERESTS OF THE THRIVING BIOPLASTICS INDUSTRY IN EUROPE

Global production capacities of bioplastics



● Bio-based/non-biodegradable ● Biodegradable ● Forecast ● Total capacity

A significant and growing industry with European leaders.



# FRUIT AND VEGETABLE BAGS ARE AN EXAMPLE OF A BIODEGRADABLE APPLICATION THAT OFFERS A SOLUTION TO THE CHALLENGE OF PLASTIC POLLUTION

### Challenges faced :

- Promote qualitative and quantitative sorting of bio-waste by all inhabitants
- > Decrease pollution of bio-waste by non biodegradable items including conventional plastics
  - > Provide everyone with an easy tool to facilitate sorting and collection of bio-waste

### **ADEME's technical recommendations (2019)**

Bio-based, biodegradables and compostable bags have a better **environmental performance** than alternatives on the market in terms of life cycle and consumer behaviour.



#### Study by Greenpeace in the UK (2019)

1.5 billion reusable plastic bags distributed, to a population of 67 million.

Avis de l'ADEME sur l'Impact environnemental des sacs d'emballage F&L

https://librairie.ademe.fr/dechets-economie-circulaire/545-avis-de-l-ademe-sur-l-impact-environnemental-des-sacs-d-emballage-fruits-et-legumes.html Greenpeace : Checking Out on Plastics II: Breakthroughs and backtracking from supermarkets https://eia-international.org/wp-content/uploads/Checkina-Out-on-Plastics-2-report.pdf



- Confusion between compostable films certified according to EU standard EN 13432, traditional plastic films and products that claim to be "biodegradable" but which are in reality "oxodegradable".
- > Lack of analysis of the biodegradation (bio-assimilation) process.

## Study by ADEME (2020)

Existing specification standards that assess the biodegradation of plastics are **severe and pertinent**. Today, the evidence of plastic pollution comes **exclusively** from non-biodegradable plastics.



## **PRODUCTS AT THE SERVICE OF CURRENT EU REGULATION**

### EU « SUP » Directive (2019/904)

SPHERE and EUBP in favour of a **ban on oxo-degradable plastics**.

#### EU « Waste » Directive (2018/851)

Obligation to separate and collect bio-waste by the **31st of December 2023.** 





Directive 2018/851

https://eur-lex.europa.eu/legal-content/FR/TXT/PDF/?uri=CELEX:32018L0851&from=FR

Directive SUP 2019/904

https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32019L0904&from=fr

## A PROVEN AND EFFECTIVE SOLUTION

Free distribution of compostable bio-based fruit and vegetable bags facilitates sorting and collection of bio-waste because the container (bio-based compostable bag) can be organically recycled with its content (organic waste).



Carrier bags for fruit and vegetables

#### **MILAN (ITALY)**

Bio-waste collection **from 28kg/capita to 103kg/capita** in a few years due to a strong regulation and efficient bio-waste management facilities (organic recycling).



#### Containers for bio-waste

#### EU

A ban on traditional lightweight plastic bags with a derogation for bio-based and compostable bags in several EU countries has led to the drastic **reduction of microplastics in compost**.



# **TOP 10 EMERGING TECHNOLOGIES (WEF)**

The development of bio-based, biodegradable and compostable materials and products offers the EU an opportunity of leadership at global level to fight plastic pollution.

Insight Report

The World Economic Forum (WEF) has ranked bioplastics number 1 of the 10 emerging technologies in 2019 and highlighted their contribution to a **circular economy**.







Bio-based, biodegradable and compostable materials are fully in line with the objectives of the circular bioeconomy and the Green Deal vision:

In line with ecological and economic objectives:

 $\rightarrow$  From soil to soil

 $\rightarrow$  Reallocation of thousands of jobs in Europe

✓ Display the same resistance and convenience qualities as conventional plastics

 $\checkmark$  Promote sorting of food waste at source

✓ Capacity to be recycled as organic waste and turned into compost (≠ incinerated or buried)

- Compost maintains soil fertility, which is increasingly crucial for food security, and contributes to the storage of carbon
- ✓ Sector of excellence, with 25+ years of European know-how, suitable for industrial relocations in the EU, synonymous with job creation.



**1.** Put in place an **exchange of best practices** between EU towns and cities on sorting, collecting and recycling of bio-waste, following the successful examples of Milan (IT), Lorient (FR), La Seu d'Urgell (SP), etc.

**2.** Ensure that a revision of EN 13432 covers not only compostable plastics but also incorporates **realistic guidance on effective composting timelines**.

**3.** Enable the emergence of current and future applications where biodegradability/compostability will provide significant environmental benefits including maximum recovery and separate collection of biowaste.



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# **THANK YOU FOR YOUR ATTENTION !**

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