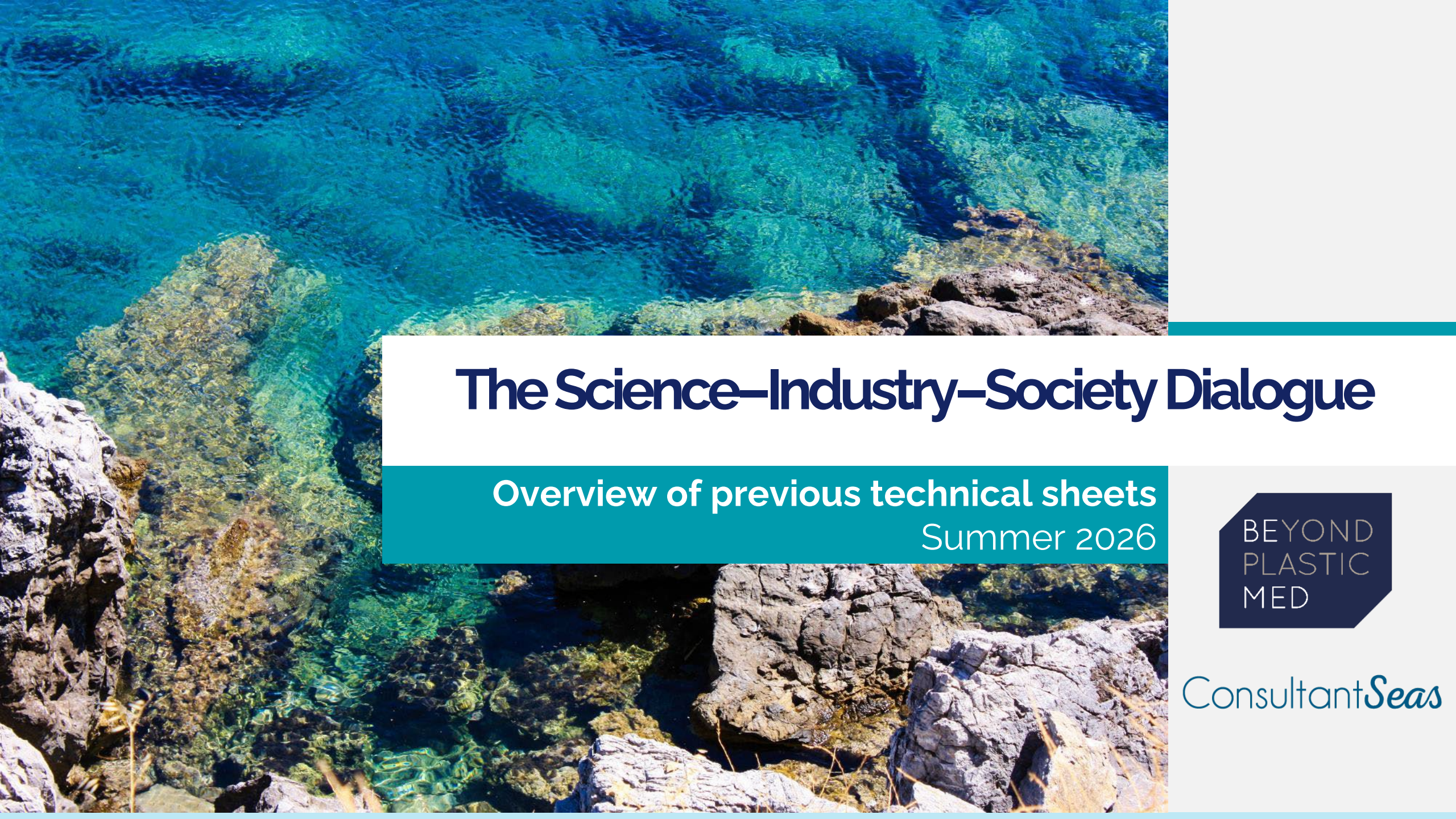




The Science–Industry–Society Dialogue

Overview of previous technical sheets
Summer 2026

BEYOND
PLASTIC
MED

Consultant*Seas*

Our areas of focus

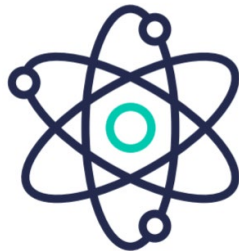
The BeMed Business Club has two main areas of activity: pilot projects and the Science–Industry–Civil Society Dialogue (SICD).



Pilot projects

We coordinate member companies working together to implement field projects approved by our scientific committee

Examples of projects: the 'zero single-use plastic' hotel, the '2040' supermarket...



Science-Industry-Society Dialogue

We facilitate dialogue between scientists, businesses and civil society with a view to progressing towards more relevant and effective solutions

Examples of topics: recycling methods, bioplastics, reuse, eco-design...

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Recycling

This factsheet was drafted in 2021 following contributions from Nathalie Gontard (INRAE), Nicolas Pont (Veolia), Sophie Genier and Christine Leuthy-Molina (Citeo) and Mokhtar Zannad (Nielsen Recycling).



Key concepts

Among the concepts covered in this factsheet, you will find:



A reminder of the role of recycling in circular economy loops;



Discussions and differences of opinion among experts regarding the definition of recycling;



A reminder of the national and international context regarding recycling targets and rates;



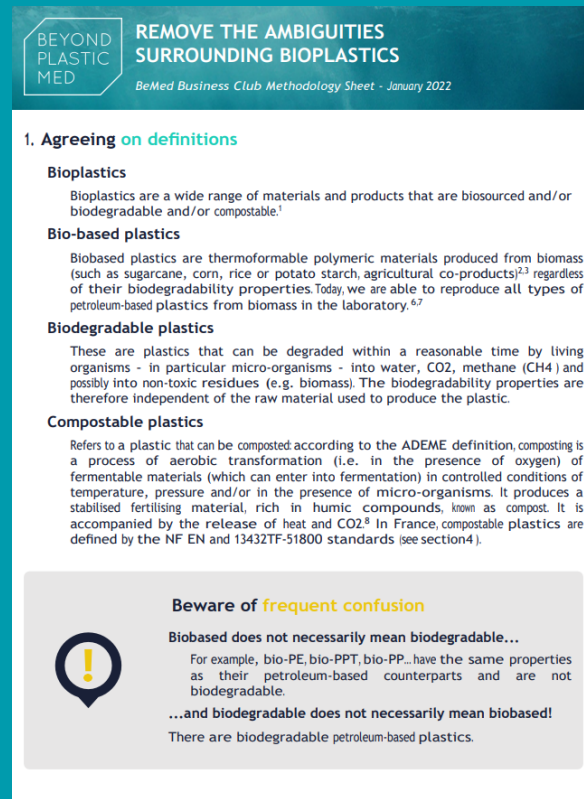
The various existing recycling loops and a comparison of them;



An overview of the challenges and obstacles to the incorporation of recycled resins;

Bioplastics

This fact sheet was drafted in 2021 following presentations by Stéphane Bruzaud (UBS) and Jean-François Ghiglione (CNRS).



Key concepts

Among the concepts covered in this technical data sheet, you will find:



A reminder of the definitions of bioplastics, bio-based plastics, biodegradable and compostable plastics;



Understanding and measuring biodegradability



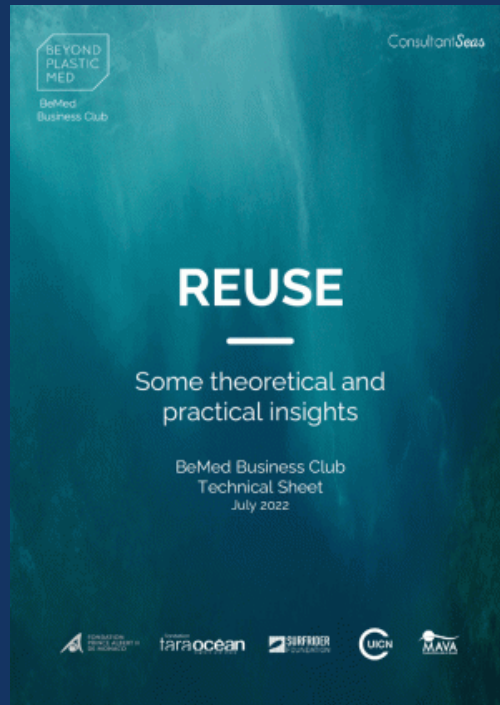
Determining what is compostable



Clarifying the distinction regarding bioplastics: biodegradable, bio-based

Reuse

This fact sheet was drafted in 2021 following presentations by Valérie Guillard (University of Montpellier) and Corinne Fugier-Garrel (L'Occitane-en-Provence).



Key concepts

Among the concepts covered in this factsheet, you will find:



Definition of reuse



Issues regarding material stability during usage cycles



Issues relating to distribution models – *lessons from L'Occitane-en-Provence*

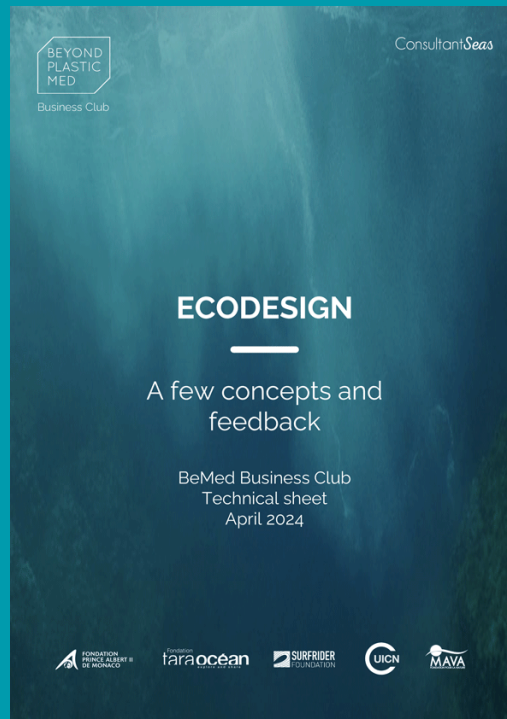


Contextualisation and the importance of comparative analyses

Eco-design

Drawing on their combined expertise, the members of the Club examined a flagship case study in eco-design: the single-use multi-material flexible pouch.

The study was carried out between 2021 and 2022.



Key concepts

Among the concepts covered in this technical sheet, you will find:



Definition and challenges of eco-design:

- Its role in reducing plastic pollution
- Its starting point: the scope of the study
- Four different levels of eco-design and re-evaluation



Methodology:

- Establishing the framework for the eco-design approach and defining the scope of the study
- In-depth analysis
- Search for solutions
- Comparative environmental assessment
- Implementing the solutions

Economics and Plastics

This fact sheet was compiled in 2023 based on contributions from Dimitri de Andolenko (Monte Carlo SBM), Pierre Scemama (Ifremer), Giorgio Bagordo (WWF Italy) and Matéo Cordier (University of Versailles Saint-Quentin).



Key concepts

Among the concepts covered in this factsheet, you will find:



The hidden costs of plastic pollution



Action at the macroeconomic level: strategies and international treaties on plastic pollution



Taking action at the microeconomic level: weak sustainability and strong sustainability

Material changes

This technical data sheet outlines the various factors to consider when replacing plastic with another material.



Key concepts

Among the concepts covered in this fact sheet, you will find:



Step 1 – Consider reduction solutions



Step 2 – Ensure there is no shift in impact



Step 3 – Take into account environmental and health issues and toxicity



Step 4 – Ensure compliance with current regulations

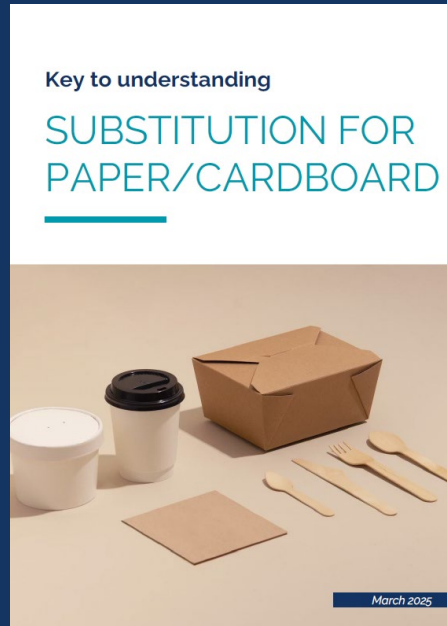


Step 5 – Be aware of the differences in properties between plastic and its alternatives

Interpretation guide – Substitution with paper/cardboard

This guide allows you to assess an alternative in order to rule it out if there are any doubts as to its suitability.

It is neither a decision tree nor a tool for measuring or comparing the environmental impact of an alternative.



The structure of the guide

1. Preliminary questions
2. Respecting the 3R hierarchy
3. Examine the packaging and its properties
4. Paying attention to the material
5. Recyclability
6. Minimising environmental impact
7. Consumer concerns

Plastics and health

This factsheet summarises the actions taken in 2024. It is not intended to provide an exhaustive list of the impacts of plastics and their components on health, but rather to provide key information for economic stakeholders seeking to reduce their companies' plastic footprint.



Key concepts

Among the concepts covered in this factsheet, you will find:



Definition of a 'health impact'



An overview of the known health impacts of plastics



The reasons for the limitations of our knowledge on these issues



Actions to be taken to limit the risks

Reuse and consumer acceptance

This factsheet summarises the initiatives undertaken in 2025 regarding consumer uptake of reuse solutions (refills, deposit schemes for reuse). The initiatives largely focused on French consumers and on feedback from experiences developed in France.



Key concepts



The trade-offs between costs and benefits for consumers



Creating intent



Barriers to taking action



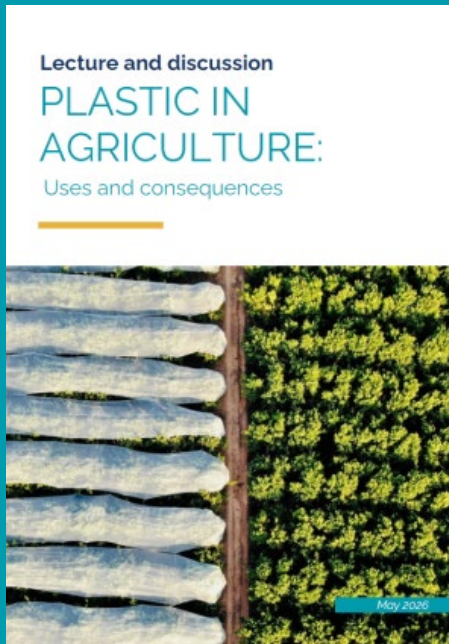
Enhancing the system's visibility



Optimising the consumer journey

Plastics in agriculture alimentation

This report is based on the conference bringing together members of the Business Club and members of the BeMed Community ([more information](#)), during which Baptiste Monsaingeon (University of Reims) spoke about the role of plastics in agriculture and food.



Key notions

Among the concepts covered in this factsheet, you will find:



Uses and Causes of the Ubiquity of Plastics



Impacts on Soil, Agricultural Products, and Health



Reassessing and Evolving Agricultural Models



Actions to deploy

Which of these subjects would you like us to review first or update within the Community ?

Vote on this quick from to tell me



A question ? Suggestion ? Something to share ?

Don't hesitate to contact me by email (crichard@beyondplasticmed.org) or on the Whatsapp of the team (+33640614745) and to add me on LinkedIn where I regularly repost relevant news for the community.

Claire

BeMed's Projects and Community Coordinator



**Access all the
tools here (EN)**