



# PACKALL

PackAlliance:  
European alliance for innovation training  
& collaboration towards future packaging

Linking **Academy** to **Industry**.

## Training program: modules

- **Eco-design & novel manufacturing processing**
  - New materials and biomaterials
  - Citizen and Consumer Engagement
  - Residue management and valorisation



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Erasmus+ Programme  
of the European Union

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## MODULE 2: ECODESIGN

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#### W4.1.1 Material ECO design

*W4.1.1.1 The importance of materials source*

*W4.1.1.2 Maximize material lifetime*

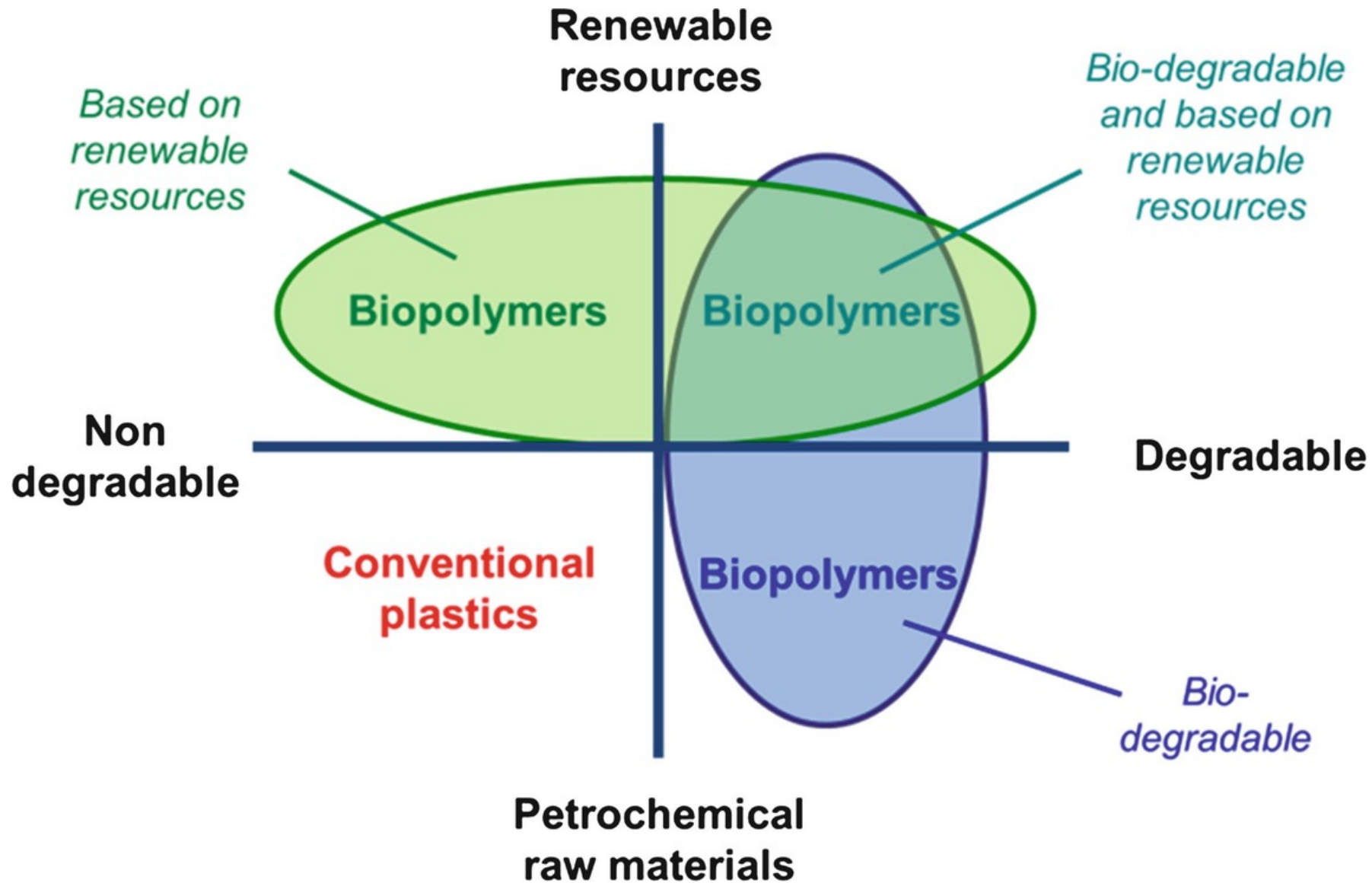
*W4.1.1.3 Reduce material complexity*

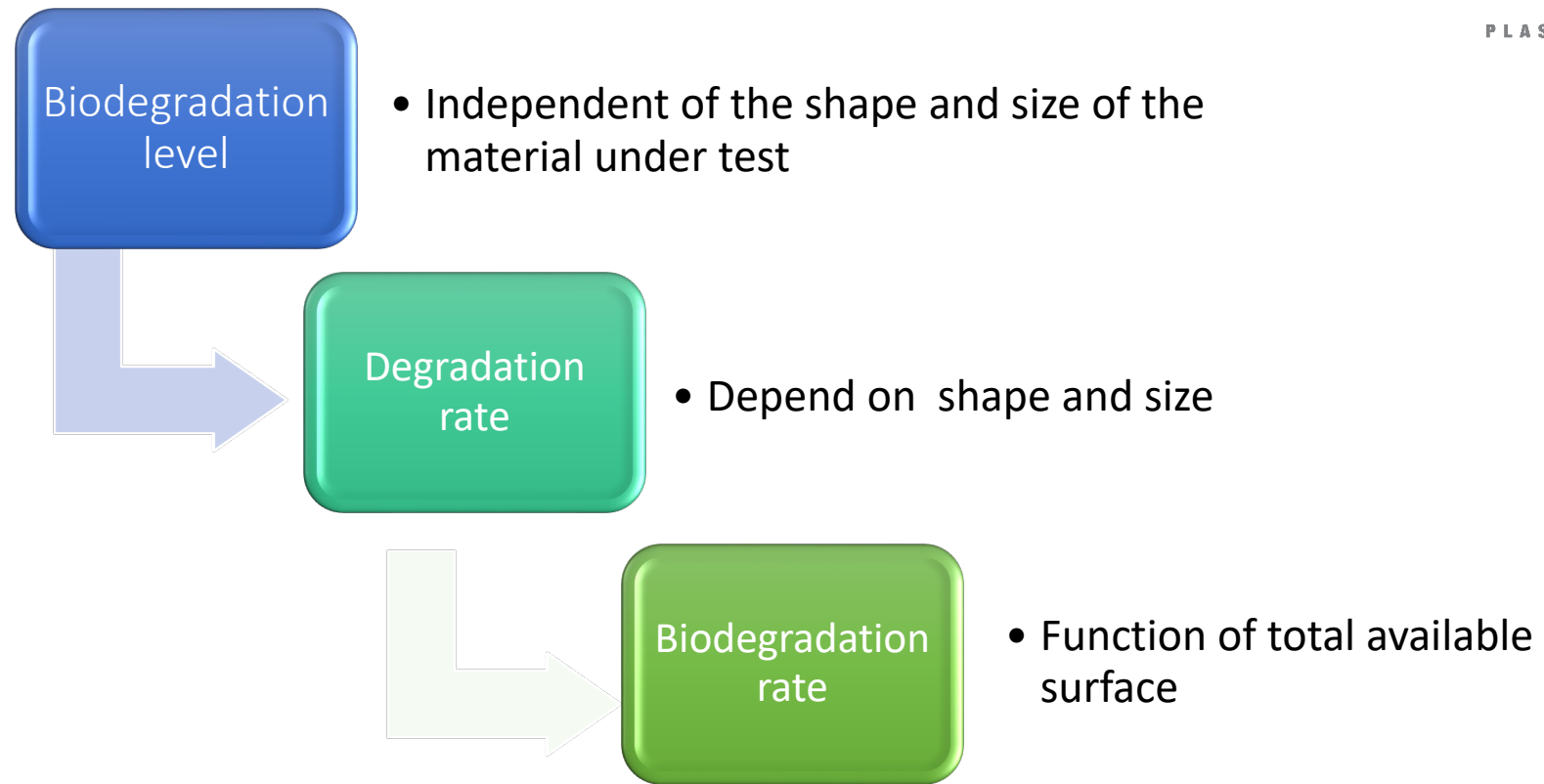
*W4.1.1.4 Biomaterials in the eco-design approach: design for compostability*

The "plastic" problem cannot be solved "simply" by deciding "we no longer use plastic" but rather with 3 lines of behavior:

1. Education
2. Increase the recycling of plastics
3. «Inventing» eco-sustainable plastics



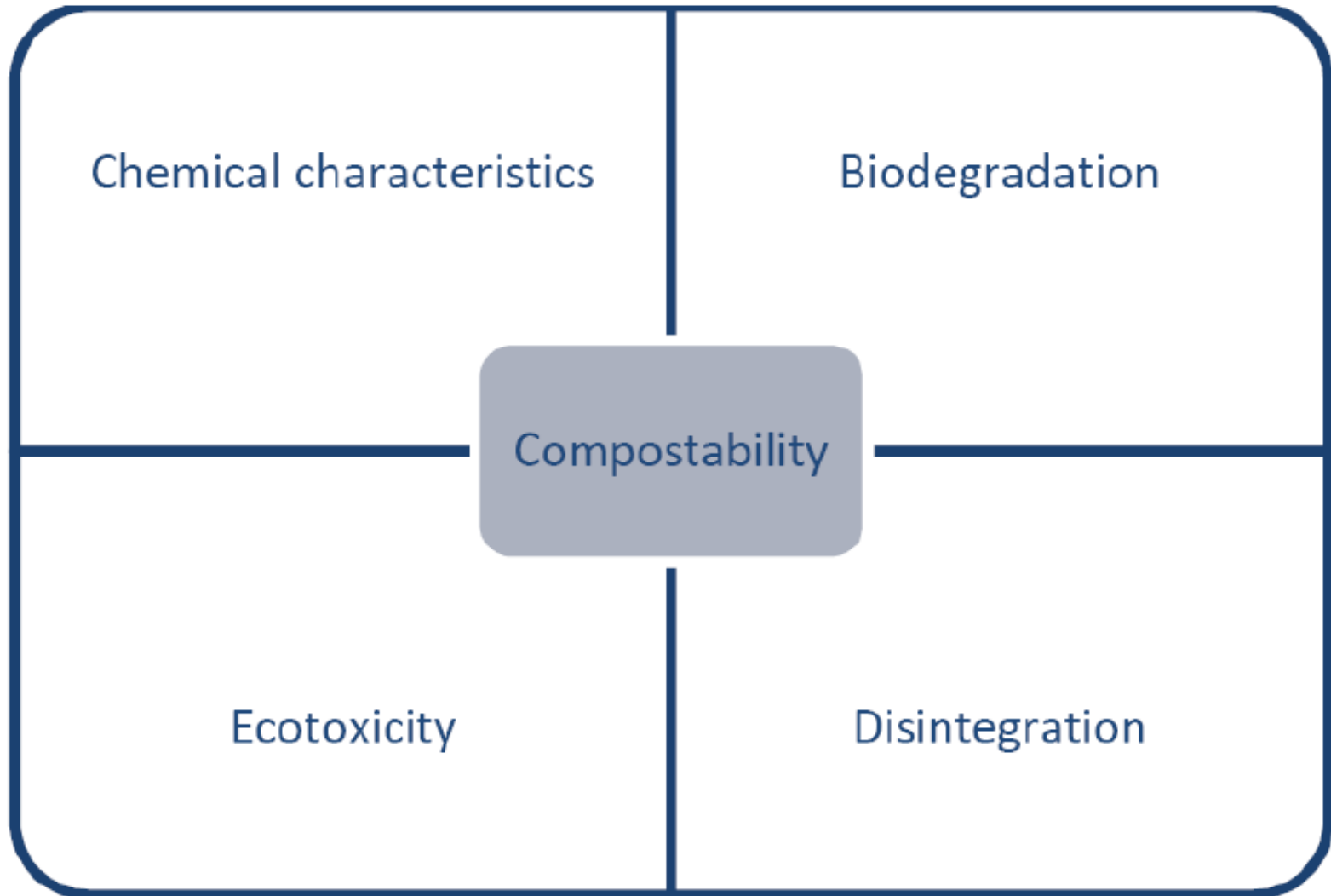




The speed and level of biodegradation strongly depend on the environment in which the material is deposited:

- Moisture content
- Presence of oxygen
- Temperature
- Concentration of microorganisms
- Concentration of salts

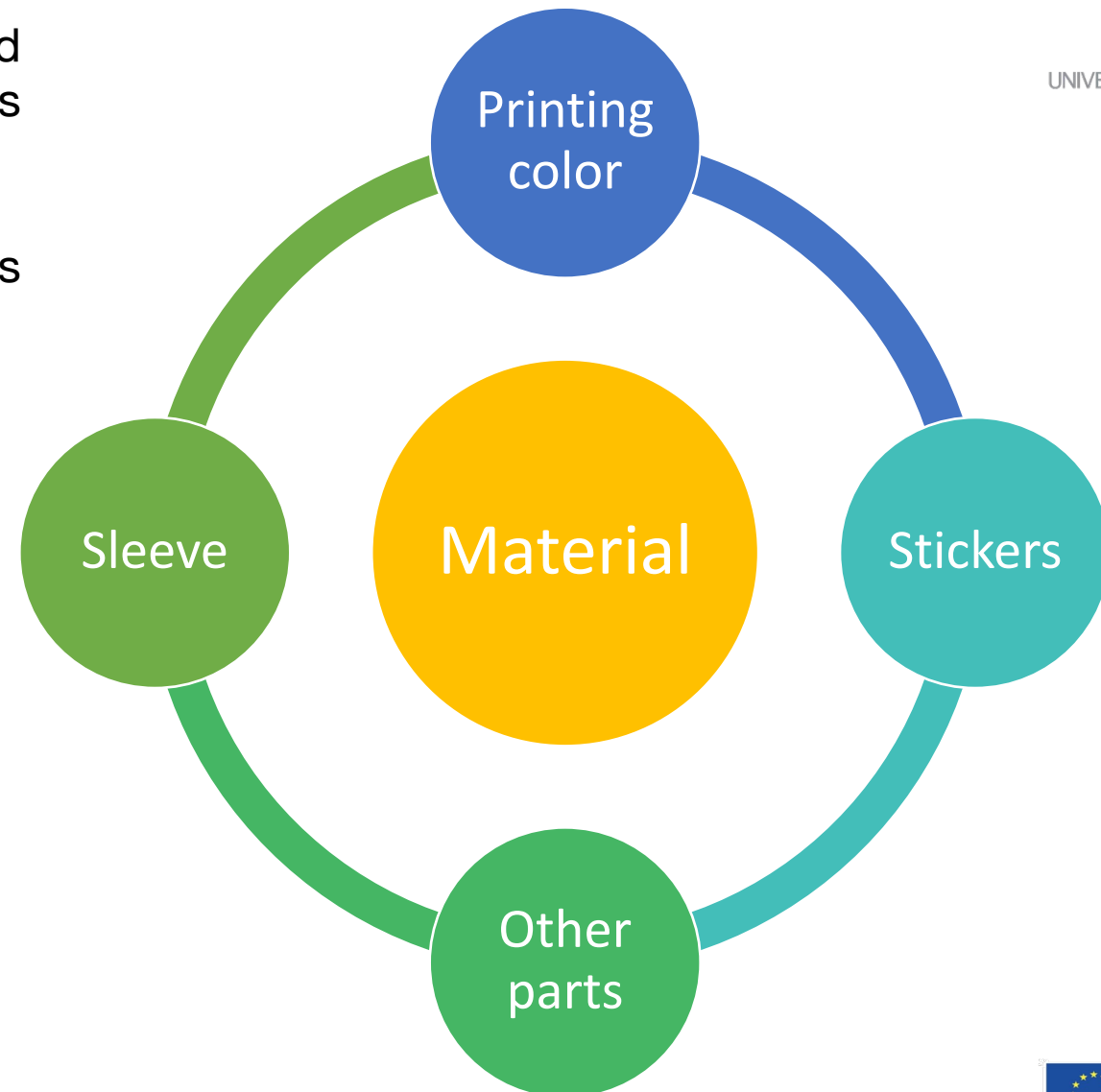
# COMPOSTABILITY EVALUATION



The producer is responsible for its end products and how the recycling is communicated to the end users.

The compostability claim is always application specific.

Also the content of packaging plays a role

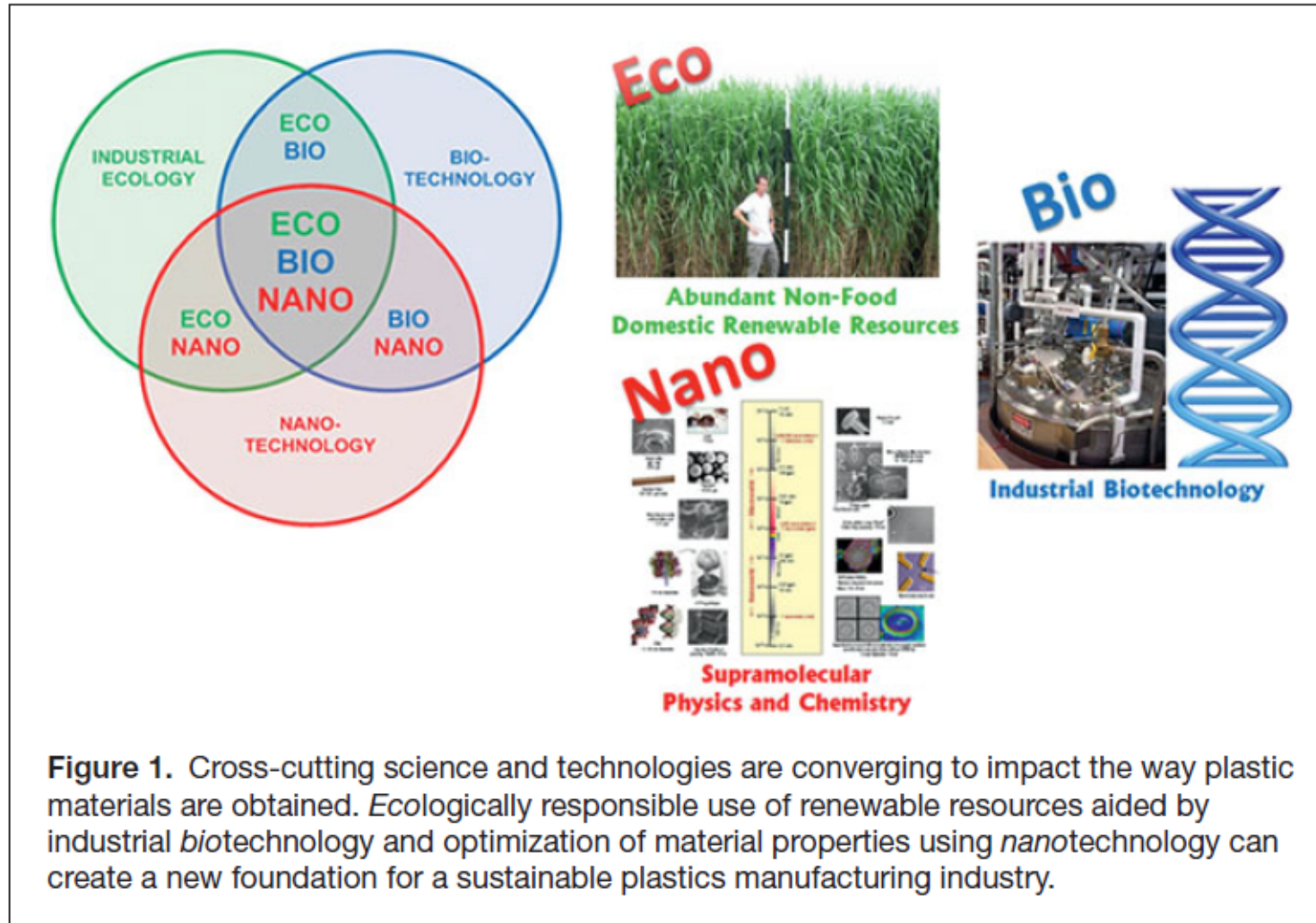


## EXAMPLES OF COMPOSTABLE PACKAGING IN THE MARKET



<https://elevatepackaging.com/>







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Design compostable packaging  
when product cannot be  
separated from packaging



<https://www.plastics.gl/packaging/compostable-coffee-capsules/>



<https://packagingeurope.com/scientists-develop-biodegradable-tub-for-beauty-market/>



<https://www.pb.pl/gazele/>

Product Details



Standing-up

Compostable zip  
Hanging hole

Clear window



Eco-Friendly Material--PLA

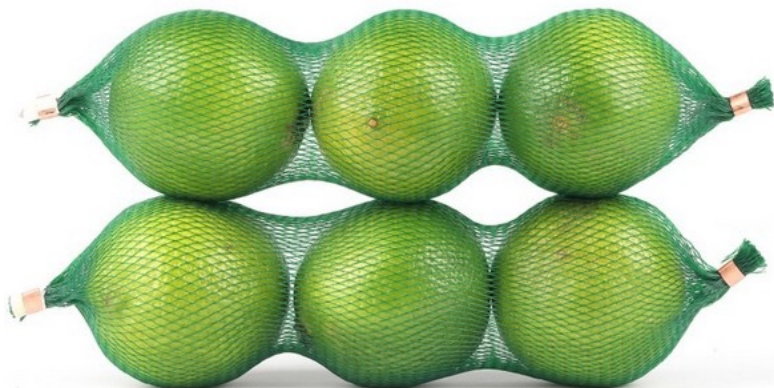
A new biodegradable material  
made from starch from  
renewable plant resources  
(such as maize, rice etc.)

<https://www.biopacktech.com/Compostable-Biodegradable-Coffee-Bag-pl3794675.html>

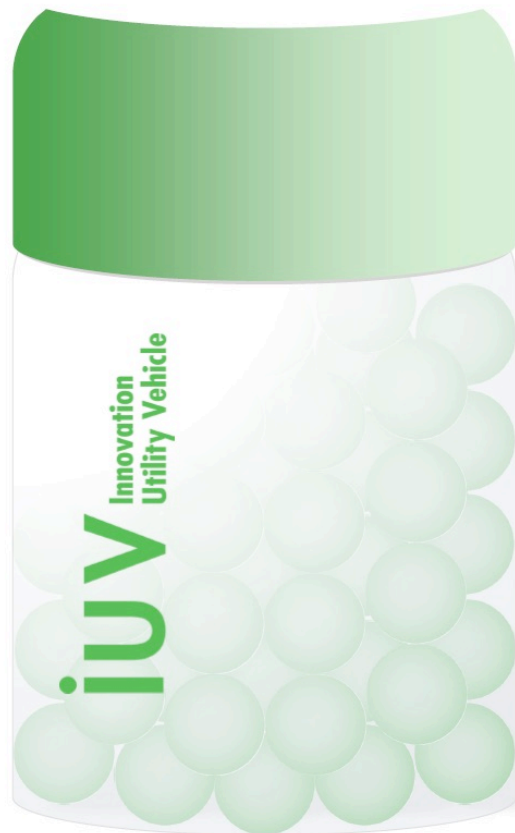
# EXAMPLES OF COMPOSTABLE PACKAGING IN THE MARKET



[SDR Pack](#)



<https://www.biopacktech.com/>



### AEGIS pods biodegradable films

It is a formula made from biobased natural biopolymers, biodegradable-compostable, designed to package non-food consumer goods.

<https://www.iuvcompany.com/en/#columbus'egg>





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## Linking Academy to Industry.



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