

1. upPE-T project

EU contribution € 7 826 685

20 partners

4 years project

10 countries































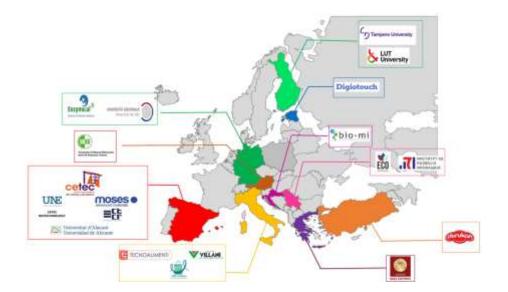










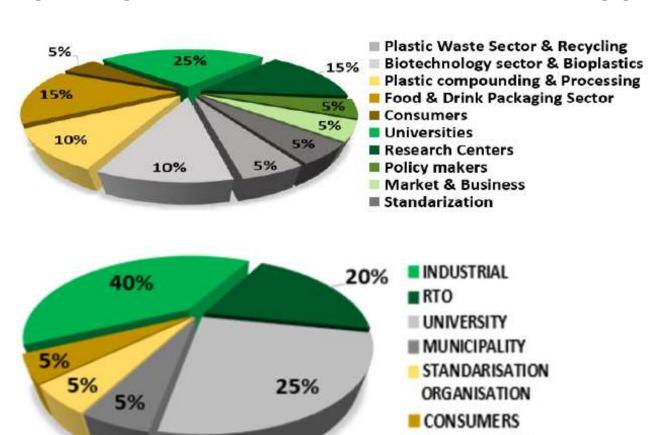


2. The whole value chain represented

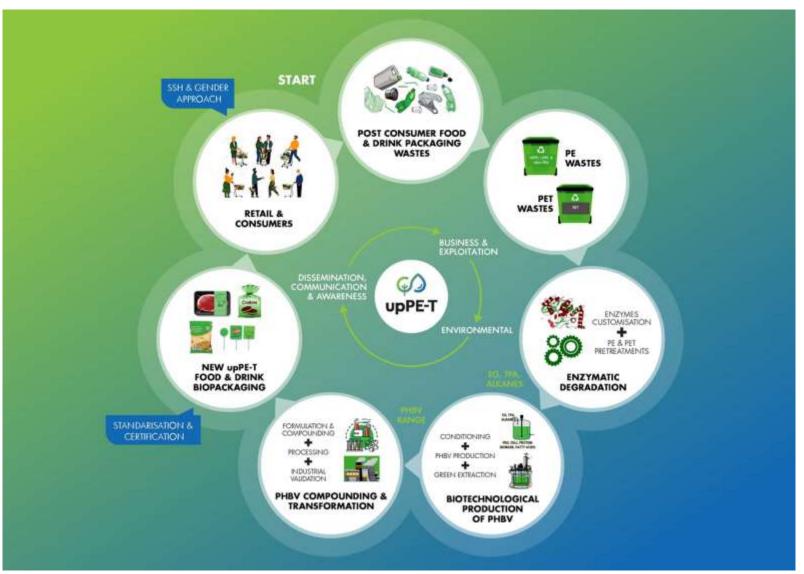
Interdisciplinary nature

Multisectorial approach

ORGANISATION



3. upPE-T Ecosystem



1st Stage: Wastes Recycling



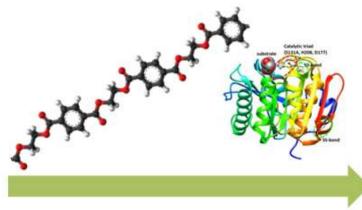




Pretreatment
Improved affinity to enzymes





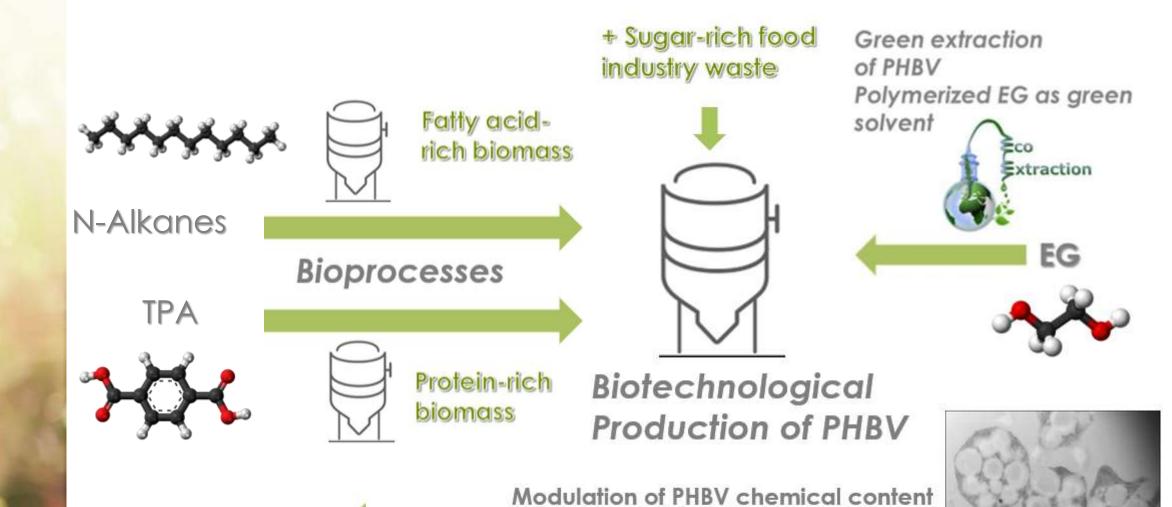






2nd Stage: Biological factories

Upscaling



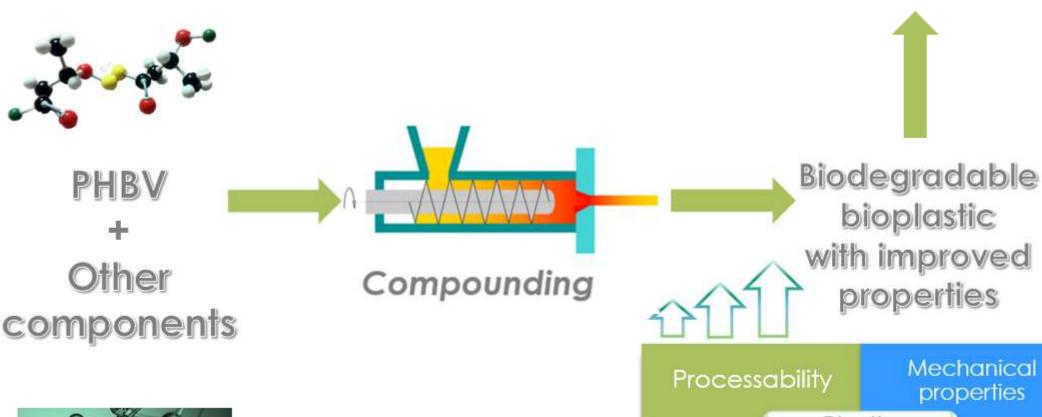
and properties using different feed

strategies in the bioprocess





3rd Stage: Compounding of bioplastic to packaging materials **Upscaling**





Plastic compounds

Barrier properties

Thermal properties

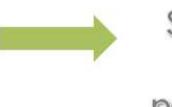


4th Stage: Transformation into packaging and industrial validation

Processing

Injection molding Film extrusion Thermoforming

Biodegradable plastic compounds



Rigid
Semirigid
Flexible
packaging





Industrial
validation by
end users
(food
industry)

Lollipops
sticks/envelopes
Biscuits bags
Cheese bags
Meat packaging





Evaluation of the environmental impact of upPE-T solution

- LCA, sLCA, LCC
- Valorization of byproducts
- Circularity studies: recyclability, compostability and biodegradability







packaging recycling and purchasing.

Integration SSH and gender aspects across upPE-T project

- Study the current attitude of European citizens with respect to recycling and purchasing food & drink packages to design a roadmap that aims to improve consumers behaviour and attitude towards drink&food
- Study of the gender structure in the recycling industry





Standardization and certification activities

Exploitation, innovation and business plans

Dissemination and communication activities

Clustering and networking activities

Stakeholders engagement



European Citizens Awareness Enablers:

- European citizens' awareness Platform and Virtual Reality (VR) based mobile app
- A Massive Open Online Course (MOOC)
- Awareness events such as workshops at educational institutions, visits to plastic

waste recycling plants, etc.





Policy review

- The review of the regulatory framework of the upPE-T solutions & tools in the EU.
- Propose measures to improve current legal & regulatory framework in this field.





Thank you for your attention





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