PARTNERS













Logoplaste HAPING THE FUTURE TOGETHE











TU Clausthal







CONTACT

If you want to contact us, please send a message to:

https://bioicep.eu/contact.php



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A SUSTAINABLE WAY **TO A BETTER WORLD**

BioICEP is designed to biotransform plastic waste into new sustainable ready to use plastics. The BiolCEP team will operate a series of innovative technologies to take in mixed plastic waste at one end, treat it with microbes and enzy mes, recovering the mole cules and bioprocessing them to produce new replacement bioplactics and bioproducts.

GOALS

Sustainable degradation of at least 20% of mixed plastics.

Accelerate plastic biodegradation: via new microorganism communities expressing novel and improved enzymatic activities enabling the degradation of green pretreated mixtures of plastics

Bioprocessed biopolymers & bioproduct development

Degraded waste plastics molecules and monomers bioconversion into equivalent bioplastics valorising mixed plastic waste

Sustainable prototype system plan, paving the way to bring developed solutions to market, delivering a seamless bio-innovative route for a circular economy for plastics.

MOTIVATION

Accelerate the degradation of mixed waste plastic and valorise it as biopolymers and bioproducts which can be used as natural biodegradable replacement plas tics – Plastics 2.0.

APPROACH



1. Development of accelerated high-efficiency biodegradation incorporating microorganism communities expressing at least three novel and improved enzymatic activities enabling the degradation of mixtures of plastics.

2. Sustainable degradation of at least 20% of mixed plastics.

3. Bioprocessed high value bioproducts including equivalent bioplastics valorising mixed plastic waste.

4. Sustainable prototype system plan, paving the way to bring the developed solution to the market, fulfilling current needs, future expectations, and delivering a seamless bio-innovative route for a circular economy for plastics.

