



Producing novel non-plant biomass feedstocks and bio-based products through upcycling and the cascading use of brewery side-streams



WP2

INSECT PLATFORM

The insect platform supports the bio-conversion of bagasse to an insect protein ingredient to produce 2 protein rich drinks.

Insects represent an underexploited source of high-quality protein with a low ecological footprint compared to animal meat.



CHEERS proposes to use *Tenebrio molitor* to transform beer bagasse combined with brewer's yeasts into defatted and soluble **protein flours of high biological value protein**, vitamins B and minerals suitable as a food ingredient in protein rich insect-based drinks (at least 20g of protein in every 330 mL ration).



PARTNERS INVOLVED



ainia



5 VALUABLE CIRCULAR BIO-BASED PRODUCTS FROM 2 NOVEL BIOMASS PLATFORMS



1

Insect flour from bagasse for protein enriched drinks.



2

Caproic-rich mixture of fatty acids from CO₂ and wastewater for animal feed



3

Chlorine from CO₂ for disinfectants

4



Ectoine from methane for cosmetics

5



Single Cell Protein from methane for pet food production

12 partners from 5 European countries



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