

BIOSMART App

An application for modern packaging design

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Keywords

- Bio-degradable packaging
- Multi-criteria optimization
- Environmental and economic factor calculations

Our skills

Data management, Machine Learning techniques

Valorization

Enabling design of bio-based packaging in regards to targeted material properties

Partnership

- GEA Westfalia GmbH
- WIPAK Walsrode GmbH
- TecSense GmbH
- IK4-Tekniker
- University of Reading
- Lipofabrik SAS
- University of Lille
- Institute in Food and Biotech., C.Viollette
- iRAP, ChemTec – HES-SO
- ITENE
- Invention AB
- Propagroup S.p.A.

Funding

European Union Horizon 2020

Schedule

2017 - 2021

The European project **BIOSMART** aims to develop **active and smart bio-based and compostable packages** that make possible: light weighting, reduced food residues, shelf life monitoring, longer shelf life and easier consumer waste handling.

In HES-SO//Fribourg three project partners are working on BIOSMART: ChemTech, iRAP and iCoSys. The efforts are coordinated by the Plastics Innovation Competence Center (PICC).

The role of iCoSys is to bring expertise in the treatment and analysis of the data generated by the other project partners. Software applications will be designed and integrated in the direction to facilitate **design, selection of packaging in regard to the desired material properties, supporting management of material data and calculation models for environmental and economic factors.**

