

VISS

Food packaging, made of more

**VIABLE, SAFE AND
SUSTAINABLE PHBV
VALUE CHAIN FOR FOOD
PACKAGING APPLICATIONS**

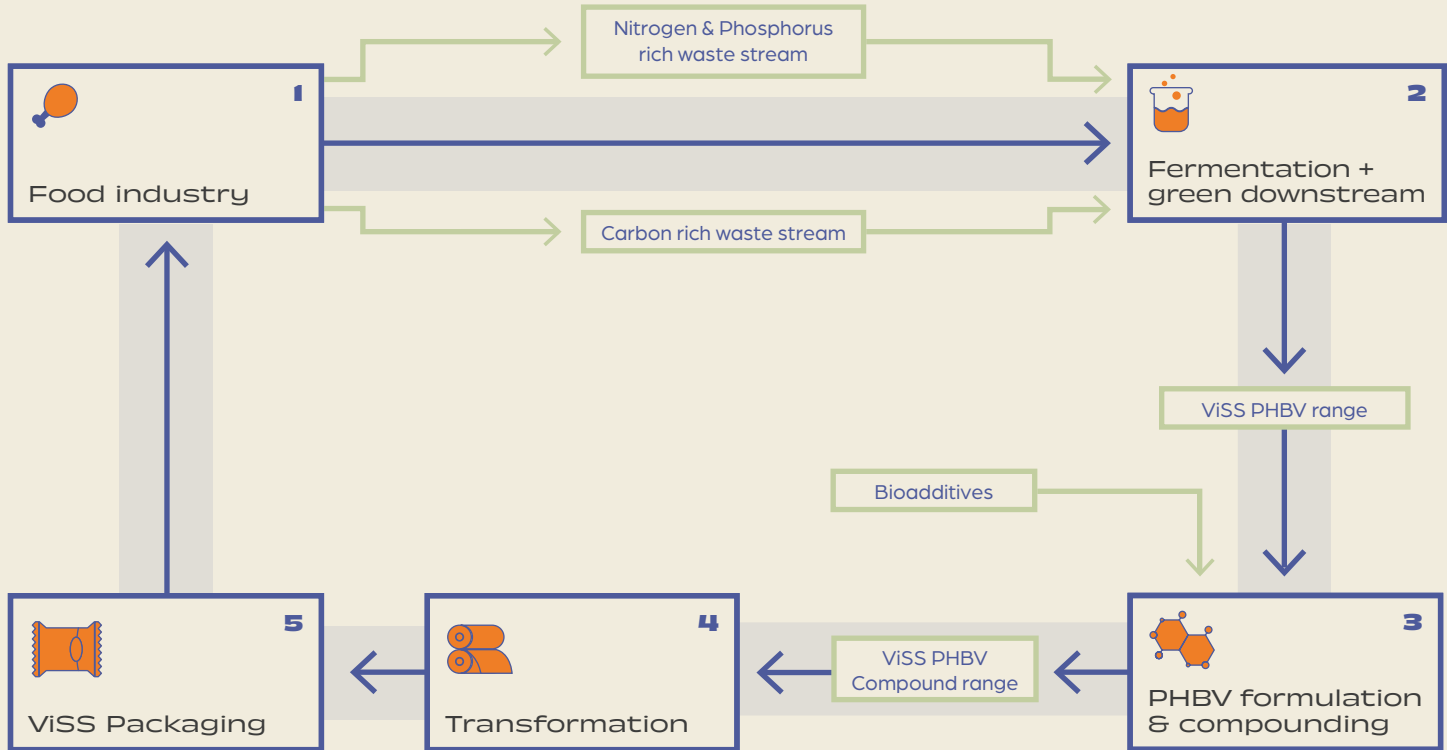
The European project ViSS will demonstrate a circular value chain based on PHBV (a copolymer of the PHAs family crafted from industrial organic residues) as a safe, environmentally, socially and economically sustainable alternative to conventional plastics for food packaging.

VISS BIO-BASED VALUE CHAIN

LEGEND:

Key step

Ingredients



From food industry residues to high-performance food packaging



1. Food industry

An innovative combination of residues will be processed by microorganisms to obtain the PHBV, a biobased and biodegradable plastic with excellent properties.



2. Fermentation + green downstream

These microorganisms will grow in non-sterile conditions and more affordable reactors, leading to significant savings.

Green downstream processes will be used to extract the PHBV: the concentrated biomass will be filtered and treated to be purified.



3. PHBV formulation & compounding

Multifunctional additives can be incorporated into the compound while preserving the biodegradability of PHBV.



4. Transformation

The PHBV compounds will be transformed into the target packaging. They will have flexible and semiflexible properties.



5. VISS PACKAGING

Industry players will validate the different packaging as high-performance food packaging which will be mechanically recyclable and biodegradable.

CONTACT US

Project coordinator:

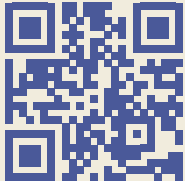
coordinator@viss-project.eu

Communication:

info@viss-project.eu

DISCOVER MORE AT:

viss-project.eu



@VISS_project



ViSS project



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