

OUR PARTNERS

The BioActiveMaterials project team consists of 3 non-profit research institutes, 2 supporting associations and two SME User Committees consisting of SME's operating in different stages of the associated market sectors and along the packaging value chain (see below).

The cooperation between all partners offers synergy of expertise and research facilities. In previous projects, it has been proven that the partners are complementary in terms of both expertise and markets.

CONTACT US

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BIOACTIVE MATERIALS

Development of recyclable bio-based materials with antimicrobial and antioxidant functionalities to improve food shelf life



renewable materials



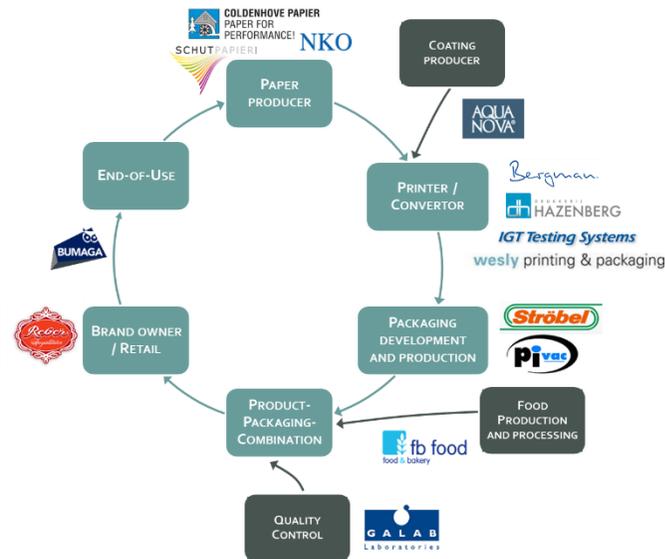
naturally bio active



using wastes as raw material



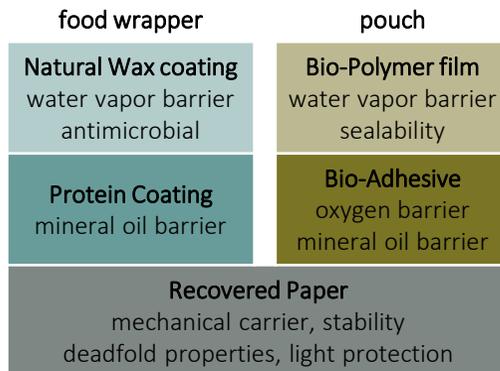
using recycling material



ABOUT THE PROJECT

The BioActiveMaterials project aims to develop new multilayer packaging materials that are fully biobased, easily recyclable and provide suitable oxygen, water vapour and mineral oil barriers, as well as antioxidant and antimicrobial properties. These new materials are intended to replace existing multilayer packaging materials that are fossil-based and generally very difficult to recycle. To assure that the new materials can be implemented and exploited in their respective markets, the project combines material research with business case and feasibility studies.

The developments are centered around two cases, namely a food wrapper consisting of a recovered paper base combined with natural wax and protein coatings, and a pouch, consisting of a recovered paper base to which a bio-polymer film is applied using a bio-adhesive.



ADDRESSED MARKETS + BENEFITS

- ✓ **PAPER INDUSTRY** will obtain new market shares as the new material is paper-based and replaces fossil-based polymer packaging materials.
- ✓ **AGRO-FOOD INDUSTRY** can market their currently underutilised by-products as raw materials for the production of fossil-based materials
- ✓ **CONVERTERS OF NATURAL MATERIALS** can access new key markets.
- ✓ **RETAILERS & BRAND OWNERS** will gain access to easy-recyclable multilayer packaging materials that follow the new German packaging law, which is the strictest in Europe.
- ✓ **CONSUMERS** will benefit from increased quality and/or elongated shelf-lives of the food they buy.

ADDRESSED SOCIETAL CHALLENGES

