

Through **BIO-BOARD**, a tailored coating system based on the renewable raw material derived from agrofood waste and its technological application will be developed for extrusion coating paper, paperboard and cardboard to produce materials with increased recyclability for food and beverage packaging.

## www.bioboard.eu

The research leading to these results has received funding from the European Union's Seventh Framework Programme managed by REA Research Executive Agency http://ec.europa.eu/research/rea (FP7/2007-2013) under grant agreement number 315313







Gascogne Fraunhofer

























At present about 7 million tonnes of coated paper, paperboard and cardboard are manufactured worldwide annually. The standard coating material currently used is polyethylene (PE).

New environmentally-friendly materials offering similar food protection performance to their conventional plastic counterparts are needed to reduce the dependency on fossil fuel based plastics and to produce recyclable solutions.



Past research revealed that whey protein coating can provide bio-degradable barrier layers that can replace existing plastic coatings in multilayer packaging and enhance their recyclability. **BIO-BOARD** is a sustainable barrier coating material for and paper-board based packaging for both and liquid food products. It is based on proteins such as whey and residues from potato, and can be processed via extrusion.

