

APROPOS – ADDED VALUE FROM HIGH OIL AND HIGH PROTEIN INDUSTRIAL CO-STREAMS

Jaakko Seppälä¹, Heidi Ruuska¹, Rasa Slizyte², Revilija Mozuraityte², Riitta Kervinen³ and Raija Lantto³

¹ Ecofoster Group Ltd, Automaatitietie 1, 90460 Oulunsalo, Finland
E-mail: firstname.surname@ecofoster.fi

² SINTEF Fisheries and Aquaculture, PO Box 4762 Sluppen NO-7465 Trondheim, Norway
E-mail: firstname.surname@sintef.no

³ VTT Technical Research Centre of Finland, PO Box 1000, FI-02044 VTT, Finland
E-mail: firstname.surname@vtt.fi

APROPOS – Added value from high oil and high protein industrial co-streams – is a collaborative research project which addresses the FP7 KBBE-2011-5 topic BioWASTE – Novel biotechnical approaches for transforming industrial biowaste to bioproducts. The project started in January 2012 and will last until December 2014.

The main objective of APROPOS is to develop and optimize a techno-economically feasible and sustainable wasteless process based on benign, organic solvent-free fractionation technologies for the exploitation of fish filleting and rapeseed residues as raw materials, ingredients and additives for food and skin care formulations as well as chemicals for pesticides and soil improvement.

APROPOS consortium consists of 7 academic partners and 10 SMEs from the EU, India, Kenya and Uganda as well as Norway and Canada. The project will lead to greater integration of research actors and activities from across the EU, North America, Africa and Asia by utilising two raw materials with distinct origin but many similarities. This will integrate researchers and their competences from rapeseed and fish processing as well as from biotechnology and R&D in food and skin care sectors and processing industries.

The success of technological developments will be assessed in terms of economic feasibility, raw material efficiency and environmental impacts. The project will also study, how the developed residue producer-end use value chain affects the existing residue – feed/ energy -value chain.