



Operational Group:

Waste2Value - Valuation of agricultural by-products for animal feed, biodegradable plastics and treatment of animal effluents.

Waste2Value - Integração da valorização de subprodutos da atividade agrícola com a produção de alimentos compostos para animais, plásticos biodegradáveis e tratamento de efluentes animais.

Practical problem

There is a need to reduce antibiotics in animal feed, as well as a strategy for mitigation of by-products in the agricultural sector in Portugal.

Waste2Value creates alternatives and novel products answering both problems by adding value and minimizing the use of antibiotics and resources

Partners

Type:

Research/ Teaching
Agri Association
LAG Association
Agri Enterprise

Name:

Instituto Politécnico de Viseu; Universidade de Aveiro
ANCOSE - A. N. de Criadores de Ovinos da Serra da Estrela
ADDLAP – Assoc. de Desenvolvimento Dão, Lafões e Alto Paiva
Ervital - Plantas Aromáticas e Medicinais,Lda; Indumape – Industrialização de Fruta,S.A.; Ovargado,S.A.; Vasco Pinto & Agostinho Sousa,Lda – Agricultura Biológica
Other Company
Silvex - Indústria de Plásticos e Papéis, S.A.

Project

Objectives:

Employ agricultural by-products to:

- obtain value-added compounds and apply them as feed ingredients;
- reduce/eliminate antibiotics in feed;
- use biopolymeric materials for agricultural biodegradable plastic films;
- obtain carbonaceous materials for treating animal effluents.

Expected results:

- Characterization of plant by-products and animal effluents;
- Holistic separation of by-products according to nutritional, phytobiotic and prebiotic profile;
- Valuable compounds incorporated into animal feed formulations; reduction/elimination of antibiotics;
- Preparation of biopolymers for biodegradable films for agricultural applications;
- Treatment of animal effluents.

Results so far/first lessons:

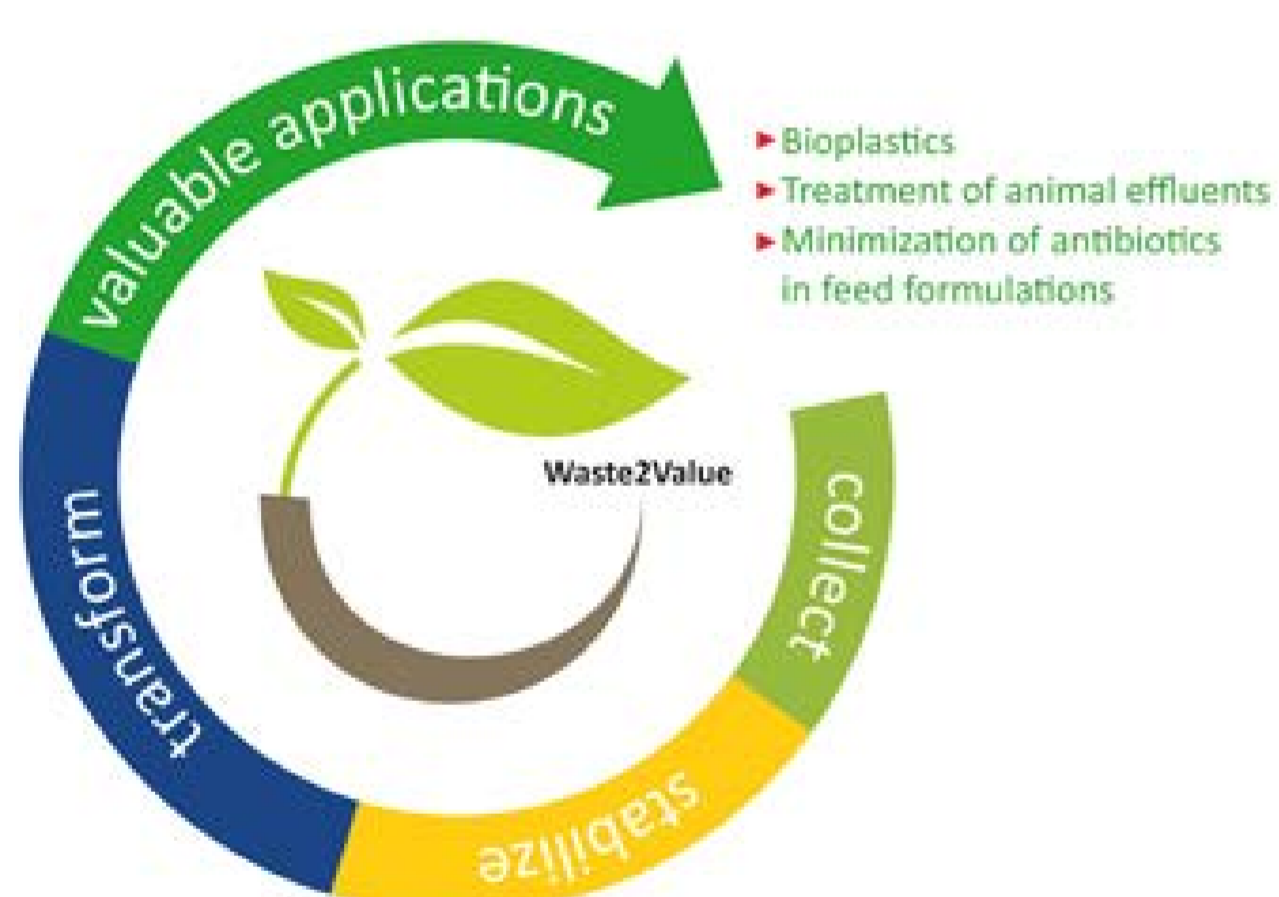
Farmers and agro-industries are willing to contribute to the valuation of their by-products and waste but often do not have the required know-how or experience. In some cases the awareness of the value of waste needs to be sharpened. Collecting by-products and waste from agriculture activity needs planning and a suitable infrastructure, e.g. to enable small producers to design new applications.

Who will benefit:

Horticultural producers, including agro-industry, livestock sector and animal feed industry

Start: October/2017
End: September/2020

Budget: 418.466 €



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