



The NEWFEED project

part of PRIMA programme,
supported and funded under EU Horizon 2020 Framework
(Turn food industry by-products into secondary feedstuffs
via circular-economy schemes)

1st NEWSLETTER July 2022

The **objective of the project** is the development and adoption of alternative animal feeds setting up a circular economy approach in the livestock production by turning the by-products of the food industry into high value secondary feedstuff for animal feed. The project **also focusses** on the increase of the sustainability of the Mediterranean livestock through the valorisation of local food industry by-products that will lead to reduced environmental impact and costs (winery, orange juice, and olive oil food industries by-products, in the South and East of the Mediterranean: Spain, Greece, and Egypt).

The NEWFEED partnership

The project partnership involves 14 partners
(R&D Institutes, Universities, Federations) from 4 countries (Egypt, Greece, Spain and Turkey).



The Advisory Board

NEWFEED Advisory Board consists of 2-3 representative members of the main sectors or stakeholders involved in the recovery and exploitation of food by-products or potentially affected by the project's results:

- Food companies
- Logistic & valorisation companies
- Feed producers
- Livestock
- Public authorities and Policymakers
- Research Organizations and Universities
- General public

Objectives

- **to analyse and validate** the objectives and expected results of the project.
- **to validate the proposed solution** before the scaling up of the Valorisation strategies and Validation of alternative feeds.
- **to get the stakeholders feedback** about Exploitation strategy and encouraged them to participate in the new business activity.

PRIMA
NEWFEED is part of the PRIMA programme supported by the European Union's Horizon 2020 research and innovation programme.

Turn food industry by-products into secondary feedstuffs via circular-economy schemes

Call: Section 1 – Farming Systems 2020
Topic 1.2.1: Genetic conservation and animal feeds
Sub-topic B) Alternative animal feeds (Innovation Actions)
Grant Agreement number: [2013] [NEWFEED] [Call 2020 Section 1 Farming IA]

1st Advisory board meeting

15th December 2021
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AZTI NEIKER Riera Nadeu UAGA BAI cesfac CádizGularte Siles Development iSIS BT UNIVERSITY OF WESTERN MACEDONIA ORTA DOĞU TEKNİK ÜNİVERSİTESİ MİLLİ HAKİMLİK TEKNİK ÜNİVERSİTESİ

The **1st Advisory board meeting** of the PRIMA NEWFEED project took place in December 2021, where 13 members of 11 different companies participated. It served to introduce the scope and aims of the project in detail to Advisory Board Members and offer the opportunity to analyse and validate the objectives and expected results of the project.

The **2nd Advisory Board meeting** will take place in early 2023, to validate the proposed solution before the scaling up of the Valorisation strategies and Validation of alternative feeds.

Hurdles and bottlenecks for the enhancement of food by-products as secondary feedstuffs for animal feed

Alternative feed value chains appraisal through a multi-actor approach.

A diagnosis of the current generation and management of the three value chains (grape stems, orange peels & olive cake) and their potential as secondary raw materials for animal feed (dairy ruminants & poultry) has been performed to assess their potential establishment through a multi-actor approach. The analysis of Current situation, the contrast of Potential solutions, their Influence with stakeholders and the consumer awareness and, finally, an analysis of the Hurdles and bottlenecks of these 3 specific whole value chains (from raw materials to consumers) has been studied to enable the enhancement of food by-products as secondary feedstuffs for animal feed.

The main concerns related to the food industries are the seasonality of raw materials, the storage and management of by-products and the commercialization of new products. In the case of logistics operators, they are concerned about the separation of by-products in production lines and storage. The feed industry considers that the integration of by-products in the feed formula is becoming more and more widespread, mainly due to the interest in reducing costs. However, they consider that it is necessary to improve in the continuous availability of new ingredients over time and the apprehension of the partners to the incorporation of new products. The livestock sector adds aspects such as price, nutritional value, consumer acceptance, supply guarantees, food safety and sustainability.

1st Physical Project Mtg

DERIO • 21-23/6/2022

AZTI organized the 1st physical project meeting, from 21st to 23rd of June, at its premises in Derio. During the first day, the 3 tasks of WP1 were presented. AZTI presented the deliverable for the hurdles and bottlenecks for the enhancement of food by-products as secondary feedstuffs for animal feed, UAGA the developments in the Advisory Board and SEVT the dissemination and communication activities that have been performed during the first year of the project. AZTI also presented the first case study for the grape stem-based ingredients for dairy sheep and cattle and the first day was completed with a visit to NEIKER's facilities, where the experiments for the feeding strategies of sheep would take place and a social dinner in Bilbao.

The second day started with the presentation of the other two case studies: the orange peel-based ingredients for dairy sheep & the olive cake-based ingredients for poultry (broiler chicken). The progress, the experimental trials and the first results were discussed, and the next steps have been drafted. The kick-off of the WP3 and WP4 took place where the main issues were discussed and decisions were taken for the future activities. The project meeting closed with the discussion of management issues with the project officers. Finally, the scientific management group, the steering committee meeting and a visit to AZTI facilities took place.

On the last day a visit was organized to BAIGORRI winery, which would provide the grape stems for the first case study. The facilities and the production process were demonstrated.

After a year of only on-line meetings, a very productive and fruitful physical meeting was successfully organized, through which the partnership has developed strong bonds, has clarified pending issues and has planned the next steps.



Interview with the coordinator

David San Martin – [AZTI](#)



NEWFEED project is focused on exploiting food industry by-products to produce secondary feedstuffs. What makes this project so significant?

Feeding represents the main cost of a livestock system. A decrease in availability and quality of plant forage causes the need to import highly priced feedstuffs such as cereals, base of most concentrates. The last decades' tendency of the market is an increase in feedstuff prices and maintenance or reduction of products prices.

Within this framework, this project is so significant in the Mediterranean area because it aims to ensure the sustainability of feeding livestock by using alternative feed resources based on local agricultural production and by ensuring a positive impact of their use on animal productivity and on the quality of the products.

Thus, the use of food industry by-products as secondary feedstuffs in circular-economy schemes will transform livestock production into a more sustainable system which responds to the increasing demand for animal-derived products such as meat, dairy or eggs.

What are your expectations on the future outcomes of the project and on the cooperation with Egyptian partners?

The expected outcome from our partners is to generate consolidated value chains based on the circular economy principles which meet the expectations of consumers and citizens in a context of environmental awareness, reducing external dependency, while providing a fair income and good working conditions to producers. In case of Egyptian partners, we hope to consolidate a value chain that transforms by-products from the olive oil industry into sustainable poultry ingredients.

NEWFEED wants to reach concrete and tangible outputs for the exploitation of the food industry by-products. In your opinion, which are the main challenges and obstacles experienced by food producers who want to follow a circular economy scheme in the Mediterranean basin?

In a context of increasing demands and the need for societal changes, the challenge for animal breeding lies in securing sustainability for their business. Increasing productivity and quality in a context where livestock is subject to wide-reaching change and where farms are increasingly exposed to animal welfare trends and climatic risks is an unavoidable challenge.

However, there are important challenges and obstacles to be overcome such as the generation of consolidated value chains based on the circular economy principles which meet the expectations of consumers and citizens in a context of environmental awareness, reducing external dependency, while providing a fair income and good working conditions to producers.

This project aims to develop and adopt of at least three new alternative feed sources that are more sustainable and cheaper than the traditional ones. This will contribute to rendering livestock production systems more resilient in the medium and long-term period.