



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

### Project Aims

- **Develop** and **adopt** alternative animal feeds, setting up a circular economy approach in the livestock production by turning food by-products into high value secondary animal feedstuff.
- **Increase** the Mediterranean livestock sustainability by valorizing local food industry by-products to reduced environmental impact and costs.

### Project Methodology

3 Value Chain side streams (Wineries, orange juice industry & olive oil industry)

Optimize and scale-up the new feed ingredients

Test and validate the value chains for the 3 case studies

Validate 3 intermediate ingredients and the final diets with animal feeding trials

Assess the sustainability of the new value chains

Define the market replicability of each value chain in the Mediterranean area

### Project Partnership

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



### Circular Economy

Food Industry Bio-products  
Optimization, Testing & Validation  
High value secondary feedstuff

#### Food Industry By-products

  
**Grape stems**  
from wineries

  
**Orange peels**  
from orange juice industries

  
**Olive cake**  
from olive oil industry

**New feed ingredients**  
for ruminants  
(dairy sheep & cattle)

Optimize and scale up  
**three new feed ingredients**

**New feed ingredients**  
for poultry  
(broiler chickens)

Project Duration: **48 months** (1/7/2021 – 30/6/2025)

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