



**Governance models promoting this integration with citizens and local areas as well with the downstream and consumers**



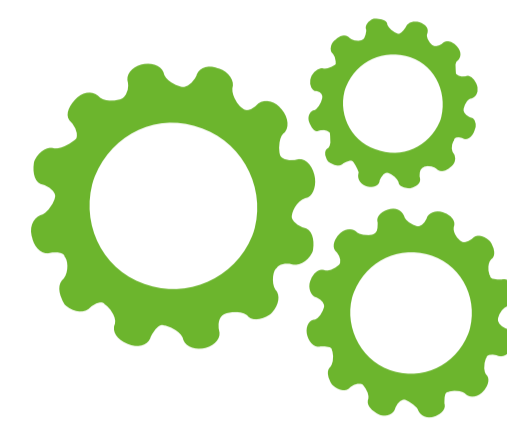
**AGRI Innovation** summit 2019



### Operational Group

#### TERUNIC TERritory Economics the Right Understanding

TERUNIC Évaluer l'impact territorial des différentes stratégies d'amélioration de l'autonomie protéique des élevages



### Practical problem

The projet aims to assess scenarios, from the farm to the territory, targeted to increase protein self sufficiency in western France.



### Partners

30 partners: economic partners, agricultural professional organizations, research and educational organizations.



### Calendar

Start: 01/01/2016  
End: 01/01/2020



### Budget

Total amount:  
€1,152,134

## Objectives of the project

The objective is to measure the consequences of multiple levers to increase the protein autonomy of farms and estimate the consequences on a wide territory.

## Main activities

1. Characterization of strategies implemented by 80 farms already involved in a protein self-sufficiency approach.
2. Define a typology of agricultural structures that produce and/or consume legumes in the west of France.
3. Create a bio economic model assessing the economic and environmental impacts of increased regional protein self-sufficiency.
4. Simulation of several strategies to assess the impact of development of legumes and protein, at different levels: farms and territories.

## Expected results

1. To collect the knowledge from the breeders who have already a high protein self sufficiency level
2. To create a simple and innovative tool to quantify proteic self-sufficiency
3. To build an upscaling bio-economic model SYNERGY assessing environmental and economic impacts of increasing legume and protein-rich crop supply.
4. Building of a chain of models from the farm to the regional economy to assess the impact of the 4 levers on protein autonomy, level of income and environmental indicators (nitrogen balance) at regional level.

## Results so far/first lessons

Creation of DEVAUTOP: a simple and innovative **software tool** to quantify proteic self-sufficiency at farm level. It will allow to simulate levers to increase self-sufficiency.

Through a **participatory foresight** implemented with partners and local stakeholders, identification of 3 contrasted scenarios and 4 main levers to increase territorial protein self-sufficiency: Enhance technological innovations to increase legumes' yields and legumes' incorporation in feed; Increase market added value (labels, quality); Design appropriate direct support to legumes' production; Increase complementarity between livestock farms and grain farms.

## Who will benefit

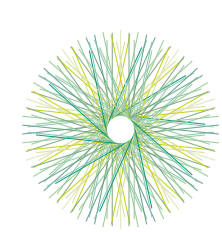
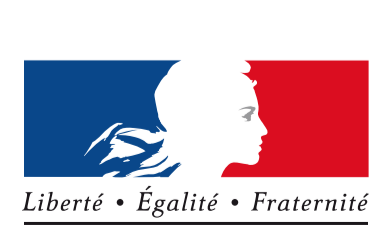
Researchers, agricultural advisories, enterprises/cooperatives and farmers will benefit from the project. The farmers express their needs and obtain reliable results or tools from the project.

### Supported by:



L'Europe s'engage en Bretagne / Avec le Fonds européen agricole pour le développement rural - l'Europe investit dans les zones rurales

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