

**Designação do projeto | Legvalue - Fostering sustainable legume-based farming systems and agri-feed and food chains in the EU**

**Código do projeto | 727672-2**

**Objetivo principal | The goal of LEGVALUE is to pave the road to develop sustainable and competitive legume-based farming systems and agri-feed and food chains in the EU**

**Região de intervenção |**

**Entidade beneficiária | Instituto Nacional de Investigação Agrária e Veterinária, I.P.**

**Data da aprovação | 2016/12/19**

**Data de início | 2017/06/01**

**Data de conclusão | 2021-05-31**

**Custo total elegível | 5 974 314,00€ (231 900,00€ para o INIAV)**

**Apoio financeiro da União Europeia | 120.000€- 51,75%**

**Objetivos, atividades e resultados esperados:**

The goal of LegValue is to pave the road to develop sustainable and competitive legume-based farming systems and agri-feed and food chains in the EU. To this end, the project will assess both the economic and environmental benefits for the EU agro industry to widely produce and use legumes in a sustainable manner. Reflecting the market diversity, LegValue will demonstrate the added value of various existing legume value chains and will provide a range of alternative solutions that would improve the economic situation of each actor involved in the various chains described. LegValue will contribute to increase the autonomy of the EU regarding the production of legume proteins for both feed and food.

Specific objectives of the project:

• **At the scientific level:**

- To propose realistic assessments of the potential of sustainable and competitive legume-based cropping and grassland systems in a diversity of situations in Europe.
- To quantify the provision and the economic value of agro-ecosystem services related to cultivation of legumes for a diversity of crops, crop management, cropping systems and pedo-climatic conditions in Europe.
- To design realistic scenarios by upscaling arable crop and grassland systems based on legumes, accounting for benefits and risks from agronomy, environment and economy.
- To analyse the innovation opportunities and bottlenecks and, through signposting, provide lessons learned for a successful transition.

• **At the socio-technological level:**

- To develop a strategy of institutional changes to stimulate the adoption of the selected legume cropping systems, identifying windows of opportunity for changing mainstream agricultural practices into the new socio-technical configurations.
- To identify the current technological breakthroughs and new feed and food products that can foster the use of legume in various supply chains both for feed and food.
- To provide a socio-technical analysis of the dynamics of transition pathways that will lead to increased use of legumes in sustainable European cropping systems.

• **At the agricultural level:**

- To demonstrate the agronomic functions and the ecosystem services provided by legumes in field conditions through on-farm demonstration activities.
- To identify and share successful approaches to increase in practice the competitiveness of the legumes across a diversity of sustainable cropping systems.
- **At the industrial level in the sector of the agri-food chain:**
  - To elaborate price-setting indicators and quality standards for farmers and users to facilitate trade on legumes at the EU scale.
  - To identify solutions that fulfil the economic interest of each actor involved and the interaction among actors, and to explore innovative value chains.
  - To provide best practice strategies for upscaling of sustainable local and regional legume-based value chains while matching production and processing to markets.
  - To analyse the behaviour of several value chains with different end uses and scale levels.
  - To provide the actors of the legumes value chains with information and coordination instruments to facilitate trade and to create innovative value-chain arrangements.
- **At the policy level:**
  - To identify levers for EU and national policies through the analyses of the impact of the last CAP and a comparison of national initiatives recently set up.
  - To highlight the pivotal position of legumes among the different policy areas.
  - To provide recommendations on the combination of levers and specific policy measures acting at different levels of the value chains to foster sustainable transition.