



Terres Inovia is the applied research institute for vegetable oils and proteins. It is at the heart of innovation, from seed to processed product. Many of the challenges for oilseed and pulse production are widely shared on the international scene.

This is why Terres Inovia is a regular partner in European projects, allowing the development of important synergies. It interacts closely with the actors of the ecosystem linked to agricultural research and innovation, such as research organizations, consulting firms or economic actors of the collection and processing of crops.

This biannual newsletter will inform you about Terres Inovia's actions that give rise to national and European collaborative research and development projects for a greater sustainability of agricultural systems and oilseed and pulses production.

## on the frontpage

Terres Inovia, co-pilot of Cap Protéines



Moving towards agro-ecological agriculture means enabling farms to produce while preserving ecosystems and maintaining or even improving yields. This is the objective of the French Protein Plan: to increase the use of plant proteins, particularly legumes, to make better use of natural resources and soil fertility. This is why Terres Inovia is co-piloting, with the Institut de l'Élevage (Idéle), a major experimentation, reference production and technical communication system: Cap Protéines.

Seed quality observatories: lentils and chickpeas arrive in 2022 !

Cap Proteines Challenge- Les Frimeuses' plant-based spreads make the jury's taste buds curl

Terres Inovia joins Protéines France



Protéines France is an association that federates a consortium of nearly 40 companies to promote the development of plant proteins in France. It supports initiatives, represents its members and applies for public funding. "Thanks to this membership, Terres Inovia is now part of a national industrial and academic ecosystem that is part of the plant protein value chain," says Frédéric Fine, the institute's director of development.

[To find out more](#)

LA PEPITE R&D, a partnership laboratory with INRAE



At a time when the challenges of food sovereignty and agro-ecological transition are more essential than ever, Terres Inovia and INRAE are pooling their know-how in an associated partnership laboratory dedicated to the research and development of efficient, innovative and low-input crop systems. The two entities, which are highly complementary, have the mission of covering the entire crop protection chain, from research to the farmer's field.

[To find out more](#)

## international projects

ClieNFarms: towards carbon neutrality for farms



Reducing greenhouse gas (GHG) emissions from farms is a central strategic objective of public authorities at the national and European levels. This is why Terres Inovia is a partner in a project that aims to support oilseed farmers in reducing greenhouse gas emissions, in particular through the use of legumes, and in improving carbon storage in the soil. This European project, which started in January 2022 for four years, aims to reduce emissions by at least 50% by 2050.

[To find out more](#)

Making better use of legume genetic resources



Terres Inovia is participating in the INCREASE project, which aims to set up a collective organization to manage and use genetic resources of four food legumes (chickpea, common bean, lentil and lupin). By focusing on these four crops, the project will implement a new approach to conserve, manage and characterize genetic resources. Terres Inovia's role is to set up a consortium of stakeholders, bringing together all the economic actors in the sectors interested in the use of these genetic resources, whether they are breeders, collectors or processors.

[To find out more](#)

## national projects

Tools: operational tools to support agroecological transitions in France



How to help French oilseed farms to preserve natural resources and reduce environmental pressures without compromising their economic performance? To help farmers move towards more agro-ecological systems, Terres Inovia has led an ambitious project: Outilsage.

For four years, this project, carried out in all French production basins with 22 partners, has developed

concrete tools that can be used directly on farms in order to design step-by-step agroecological systems on the farm.

[To find out more](#)

## Terres Inovia, committed to climate change mitigation



The low-carbon label is one of the ways to participate in climate change mitigation by attributing an economic added value to producers' efforts to reduce GHGs.

Terres Inovia is very committed to the issue of climate change mitigation, one of the environmental services to which the agricultural sector can contribute. The institute has worked to develop the sectoral method for field crops labeled low-carbon and supports projects that participate in these virtuous agricultural systems.

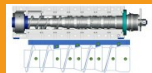
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## teams and skills

### A thesis on mechanical extraction processes of vegetable oil



The work on pressing processes is a research area of excellence for Terres Inovia. It is in this context that the Department of Seed Processing and Valorization (DTVZ) of the technical institute has welcomed Florian Rousseau, a PhD student, to prepare a thesis on the processes involved in the mechanical extraction of vegetable oil. The objective? To better understand the phenomena involved in pressing, especially on shelled seeds. This thesis on the "experimental study and modeling of processes involved in the mechanical extraction of vegetable oil" highlights the work carried out by Terres Inovia for many years.

[To find out more](#)

### A new sustainable extraction solvent supported by Terres Inovia



The ECOLEO project led by Patrick Carré (Department of Seed Processing and Valorization) is creating an extraction solvent for vegetable oils that is more environmentally friendly, but also healthier for human consumption. It is the result of a thesis from the University of Avignon. This new solvent, produced by the company Pennakem, is biosourced and is not carcinogenic, mutagenic or reprotoxic. It is awaiting approval from European authorities as a green solvent.

[To find out more](#)

## new from the field

### Sunflower: evolving cropping practices



French farmers are adapting their practices to more agro-ecological, sustainable and increasingly environmentally friendly systems. A survey on sunflower cropping practices confirms this: diversification of rotations is confirmed, plant cover is on the rise, with more and more legumes, and limited use of fertilizers, for example, with increased yields.

[To find out more](#)

### Withdrawal of phosmet in France: agro-ecological alternatives tested by Terres Inovia



From November 1, 2022, phosmet, used in French farms to control autumn pests on rapeseed, will no longer be allowed to be used. Terres Inovia has been working for a long time on alternatives to this major insecticide that respect the environment and ecosystems. Its research focuses on agronomic levers to obtain a robust rapeseed, nitrogen management in autumn and, for the most critical situations, an experiment on cyantranilprole.

[To find out more](#)

## events

Terres Inovia will be present at two major international conferences in 2023:

World soybean research conference, 18 to 23 June 2023, Vienna, Austria.

16th International Rapeseed Congress, 24-27 September, 2023 in Sydney, Australia.

[To find out more](#)

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## About Terres Inovia



Terres Inovia is the technical institute for the vegetable oil and protein sector and the hemp sector. As an applied research organization, it supports producers of rapeseed, sunflower, pea, soybean, lentil, chickpea, lupin, faba bean, flax, lupin and hemp. It is involved in numerous partnership projects, whether regional, national or international.

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