



**Soil: fertility, biological life
and fighting against erosion**



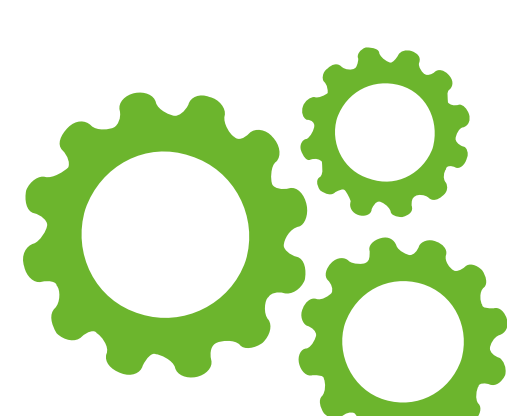
**AGRI
Innovation** summit 2019



Other Multiactor Project

GIS GC-HP2E: Scientific Interest Group on Arable Crops for High Economic and Environmental Performances

GIS GC-HP2E : Groupement d'Intérêt Scientifique
Grande Culture à Hautes Performances Economiques
et Environnementales



Practical problem

Arable crops are a key component of French
agriculture and there is a need to jointly improve their
economic, social and environmental performances.



Partners

Twenty-six actors involved in R&D, education,
farming, industry, and value chains, including INRA,
Arvalis, Terres-Inovia, ITB, APCA, Agrosolutions.



Calendar

Start: 21/05/2009
End: 31/12/2019



Budget

Total amount:
€2,386,000

Objectives of the project

Relevant actors from arable sector joined forces in 2009 to build a common vision of research priorities for the arable sector and to pool their resources and competences around the following priorities: • Reconcile social, economic and environmental dimensions in arable systems • Design technological and organizational innovations through the implementation of long-term multi-actor collaborative projects; • Implement a system approach based on the principles of agro-ecology.

Main activities

Through a cooperative operating mode, above objectives are currently being addressed around five thematic programmes: – Design and assessment of varietal innovations for diversified systems; – Develop an agro-ecological toolbox for integrated weed management, – Develop tools for a sustainable soil management, – Description of agricultural practices and multi-criteria assessment of their performances, – Remove barriers to diversification on arable cropping systems. Activities include: foresight workshops, preparation of collaborative projects, co-funding of jointly executed research, development of diagnostic tools, dissemination and communication materials.

Expected results

- Common vision on challenges that the arable sector is facing;
- Strategic Research Agenda for the arable sector;
- Development of decision-support tools to help farmers drive the multi-performance in their farm;
- Multi-actor collaborative R&D projects on identified priorities;
- Capacity-building for the actors of the arable sector;
- Quicker dissemination and uptake of R&D results.

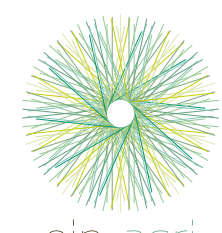
Results so far/first lessons

GIS GC-HP2E has made it possible launching several National collaborative projects and facilitated the involvement of several actors into to EU projects. It has also produced several methods and tools in each of the thematic programmes. For example, in the field of sustainable soil management: – Description of tillage practices and associated cropping systems to assess their direct and indirect impacts; – Development and dissemination of tools for rapid and simple characterization of soil conditions; – Models and references for the estimation of the available days for agricultural interventions; – Development of a multi-criteria assessment tool corresponding to the multiple issues related to (non)tillage.

Who will benefit

Farmers through fit-for-purpose tools jointly designed by the GIS partners. Actors of the sector sharing resources and competences on strategic challenges. Policy-makers through a concerted vision among actors of the arable sector.

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