



Plant health



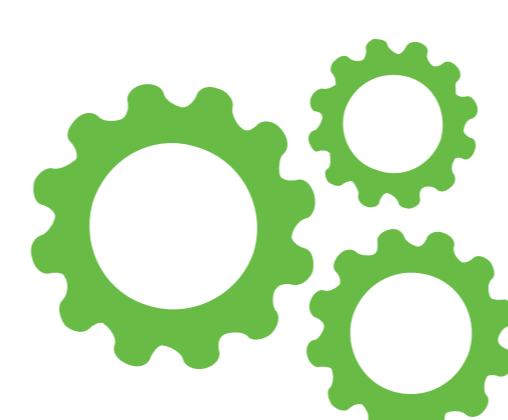
AGRI
Innovation summit 2019



Other Thematic Network

GIS PIClég: a research, development and stakeholder shared Initiative for Integrated Production of vegetables in France

GIS PIClég: Groupement d'Intérêt Scientifique sur la Production Intégrée des Cultures légumières, France



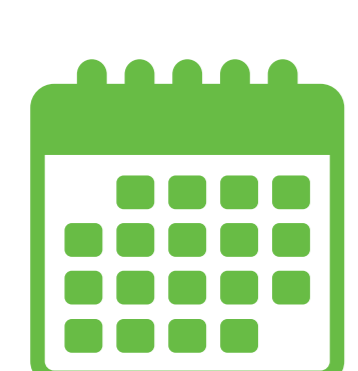
Practical problem

How to build more sustainable vegetable cropping and farming systems and favour their dissemination at the national scale?



Partners

18 partners dealing with vegetables: research and technical institutes, advisory services, production and marketing organizations, growers organizations.



Calendar

Start: 16/05/2009
End: 01/01/2027



Budget

Total amount:
€100,000

Objectives of the project

- (1) To develop joint projects by associating basic research (research institutes), applied research (technical institutes), extension services and local experimental stations in an interactive way and on the long term. (2) To involve end-users from the very beginning to identify the main problems to solve and as a source for innovation. (3) All vegetable crops, in open fields, plastic shelters and greenhouses, in soil and soil-less, fresh and processed vegetables are concerned. (4) Studies at national level but taking into account specificities within French regions.

Main activities

GIS PIClég regularly organizes meetings between the 18 partners to prioritise research questions, favour project building, exchange knowledge. It organizes external meetings (mainly for technical advisors) and disseminates results through scientific publications technical leaflets, training and videos. Several themes are more specifically studied in R&D projects: design and evaluation of cropping systems; fertilisation and irrigation; genetic and breeding; management of soil-borne and aerial pests; weed management. Emerging themes concern pest-repelling plants and biopesticides, robotic and big data, periurban farming and will be studied in the coming years. More details on www.picleg.fr

Expected results

- (1) Basic knowledge on agro-ecological process and their mobilization by the actors of the vegetable sector, from fields to agricultural chains and territories. (2) Overview of the main sociotechnical lock-ins limiting the adoption of low pesticide-input pest management by farmers (e.g. lack of marketing outlets, knowledge gap, lack of equipment to adopt agro-ecological practices...) and ways to unlock the sociotechnical system. (3) Innovative environment-friendly cropping and farming systems, economically efficient, and respectful of society's expectations, in particular with lower pesticides. (4) Contribution to a larger agro-ecological transition in vegetable production.

Results so far/first lessons

- (1) Deeper knowledge on several biological processes and techniques (e.g. decision-support tools for fertilization and irrigation, cultivar potentialities to control pests and diseases, use of biocontrol, soil solarisation, biofumigation...). (2) Several cropping systems built and assessed at a large scale. (3) Better awareness of all partners for system approaches and their interest to gain efficiency in innovation building. (4) Increased skills to build, manage and analyse system experiments. (5) Methodological guidelines for experimenters and agricultural advisors. (6) Specific training courses for students, experimenters and agricultural advisors.

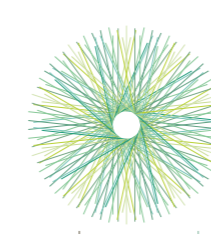
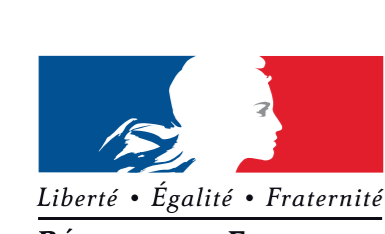
Who will benefit

- (1) The 18 members of the GIS: INRA, CIRAD, IRSTEA, CTIFL, UNILET, IT2, ArmeFlor, ITAB, CTCPA, ITEPMAI, APCA (Chambers of Agriculture) Légumes de France, Fnams, GEFEL, Felcoop, Interfel, Ministry of Agriculture, France AgriMer. (2) Growers, technical advisors, trainers, experimenters, scientists at national level (metropolitan and overseas French territories). (3) Scientists and experimenters at European level through the collaboration with EUVRIN organisation.

Supported by:



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More information www.reseaurural.fr/ais2019

