

Syppre

ARVALIS
Institut du végétal



Terres
Inovia
l'agronomie en mouvement

Built together cropping systems for tomorrow



Responding to the challenges of agriculture

Reconciling **agronomy** and **ecology** to **produce**

- **more** and in **quality**
- by being **profitable** and **competitive**
- in an **environmentally** friendly manner



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Construire ensemble les systèmes de culture de demain





A new approach

- Improving the **performance of each crop** is necessary, but not sufficient
- Hence a **transversal approach** at the level of **cropping systems** and **farms**



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Construire ensemble les systèmes de culture de demain

3 objectives & 3 components

Innovative and efficient systems that meet 3 objectives

- **Physical productivity**
- **Economic profitability**
- **Environmental excellence**

A global and original methodological combination

- An **observatory** of practices
- Experimental **platforms**
- Farmers' **networks**





An observatory

A sample of 1,000 farms to

- **know** the practices
- **evaluate** performance
- **measure** changes over time

to monitor the implementation of innovations on farms



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Experimental platforms



- **Conditions** : plots of 5 to 10 ha, for at least 10 years
- **Comparison**: reference system/innovative system
- **Additional factorial tests**
- **Places to foster** innovation: new practices, innovative combinations of levers, new decision rules/driving



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Farmers' networks



An approach **for** and **with farmers and their advisors**

- **supported** in the redesign of systems adapted to their situation
- acting as **referents, evaluators, spokespersons**

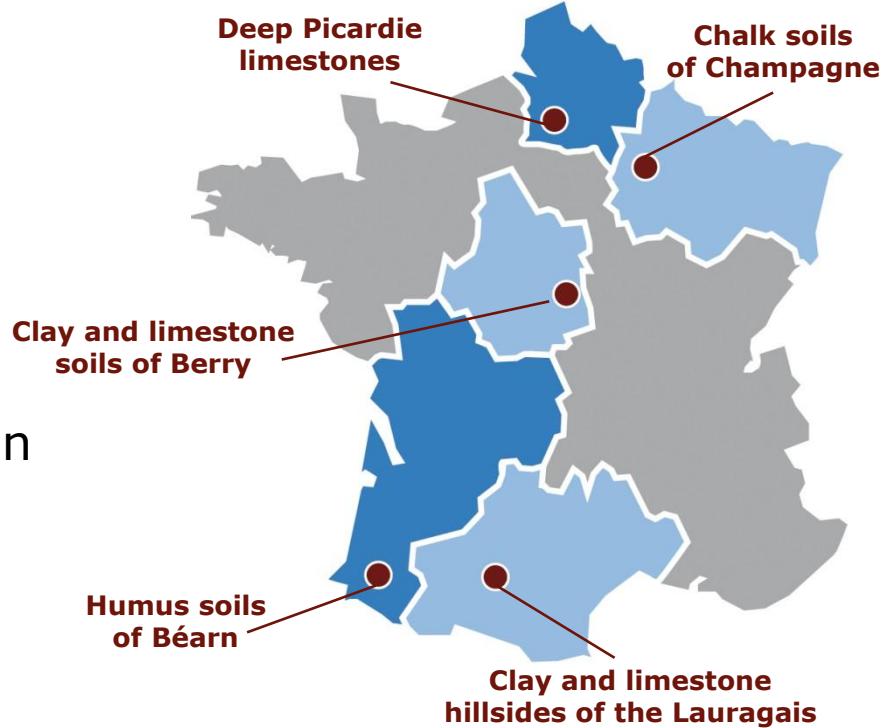
Complementary observation sites, in coordination with the platforms for a mutual exchange of knowledge



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5 contrasting contexts

- A **national approach** in **5 contrasting agricultural contexts** of field crops
- A management by the **institutes**
- Places for exchange and consultation with **40 regional partners**



3 institutes

- Competence
- Expertise
- Complementarity

600 employees invested



A long-term project

The ambition in a few figures

- **+ 10%** productivity/ha
- **- 10 to - 40%** of inputs
- **- 10 to - 30%** greenhouse gas emissions
- **+ 1 to + 4** per thousand of carbon in the soil per year
- **Maintenance of the economic profitability**



The Syppre project aims to
2025

Construire ensemble les systèmes de culture de demain



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Thank you for your attention

