

Image: A state of the state

Eight inter-disciplinary metaprograms

to think about agro-ecosystem management with multidisciplinary points of view to organise scientific animation (conference, workshop...) fand to value it: book, paper, video to organise intern scientif calls, in preparation for ANR, ADEME, H2020... to increase Inra international activity

Main challenge for Agriculture: Feeding the world in a sustainable way

- A complex, holistic and multi-level challenge in a context of global changes:
- climate change
- biological invasions
- ♦ market and price fluctuations,...

Not only a question of food production:

- Other services than production : climate change regulation, open landscape
- ♦ Reduction of negative impacts on soil, water, air, biodiversity: pesticides, nitrogen
- Reduction of natural ressources mobilization : P, fossil energy...

Not only a challenge for research

- Regional and international trade
- ♦ Waste and loss
- ♦ Eating patterns...

BUT: Agriculture competitiveness and sustainability essential

INRA - France / FACCEJPI-KNSI meeting = June 3th



professionnal sector

TO Systemic experimentation on cropping system or livestock system with a strong relationships with variou s stakeholders

Main field research and actions for Agriculture

Combination of levers:

- Genetics and breeding (efficient use of inputs)
- Plant and animal health (pesticides and antibiotics)
- Practices (soil tillage, animal husbandry) and systems (diversification)
- Agroecology, bioeconomy and precision farming
- ♦ Actor decisions (working time, innovation) and public policies

Multicriteria and multiscale assessment:

- Productivity + economic + environmental + sanitary + social performances
- Field/herd+ far+ territory + country+ planet

Research strategy combining:

- Inter-disciplinary programs
- Infrastructures for experimentation and modelling
- Non-academic partnership

Foresight analysis

RA - France / FACCEJPI-KNSI meeting -- June 3th 2016

3



6

5

#AI2025: AGRICULTURE INNOVATION 2025

under the request of the Ministers for Research and Agriculture by ACTA, PT, INRA, IRSTEA headquarters



30 projects grouped in 3 priorities

INRA - France / FACCEJP

System approaches & soil, climate : 4/1000 program Technology-based innovations : e.g. biocontrol, digital and connected agriculture Open innovation : e.g. living lab

7