

Séminaire INRA-FiBL-Biovallée  
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**& Drôme**



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# *Innovation broker for 35 years*

NGO founded in 1979 by Organic farmers and Scientists

**Farming system improvement  
in organic agriculture**

- **Research and field trials**
- **Knowledge management and Dissemination**
- **Expertise in organic farming**



*GRAB  
Presidents*



# Research resources

## Fruits, Vegetables, Grapevine

- **Staff**

15 p. Steerring comittee : farmers, scientists, partners  
15 permanents (agronomists, phd, tech.)  
10 trainees

- **Trials**

Southern France  
25 on-farm trials  
2 experimental farms + 1 pilot farm  
2 Laboratories

- **Partnership**

From local groups to european institutions  
(FP6, FP7, Cost, CO+...)

100% organic



# From soil to climate

- **Soil fertility management** : organic fertilizers, composts, diagnosis tools, biodegradable mulchs ...
- **Adapted cultivars** : low input, tolerant, participative selection
- **Pests and diseases control** : natural pesticides & fungicides, Aromatherapy, copper reduction, nets, agronomic strategies...
- **Environment and fonctionnal biodiversity** : hedges composition, rows of flowers, ecological reservoir...
- **Farming systems** : agroforestry, semi extensive orchard, water use reduction and climate mitigation
- **Climate adaptation** : water scarcity



# GRAB trials in Drôme

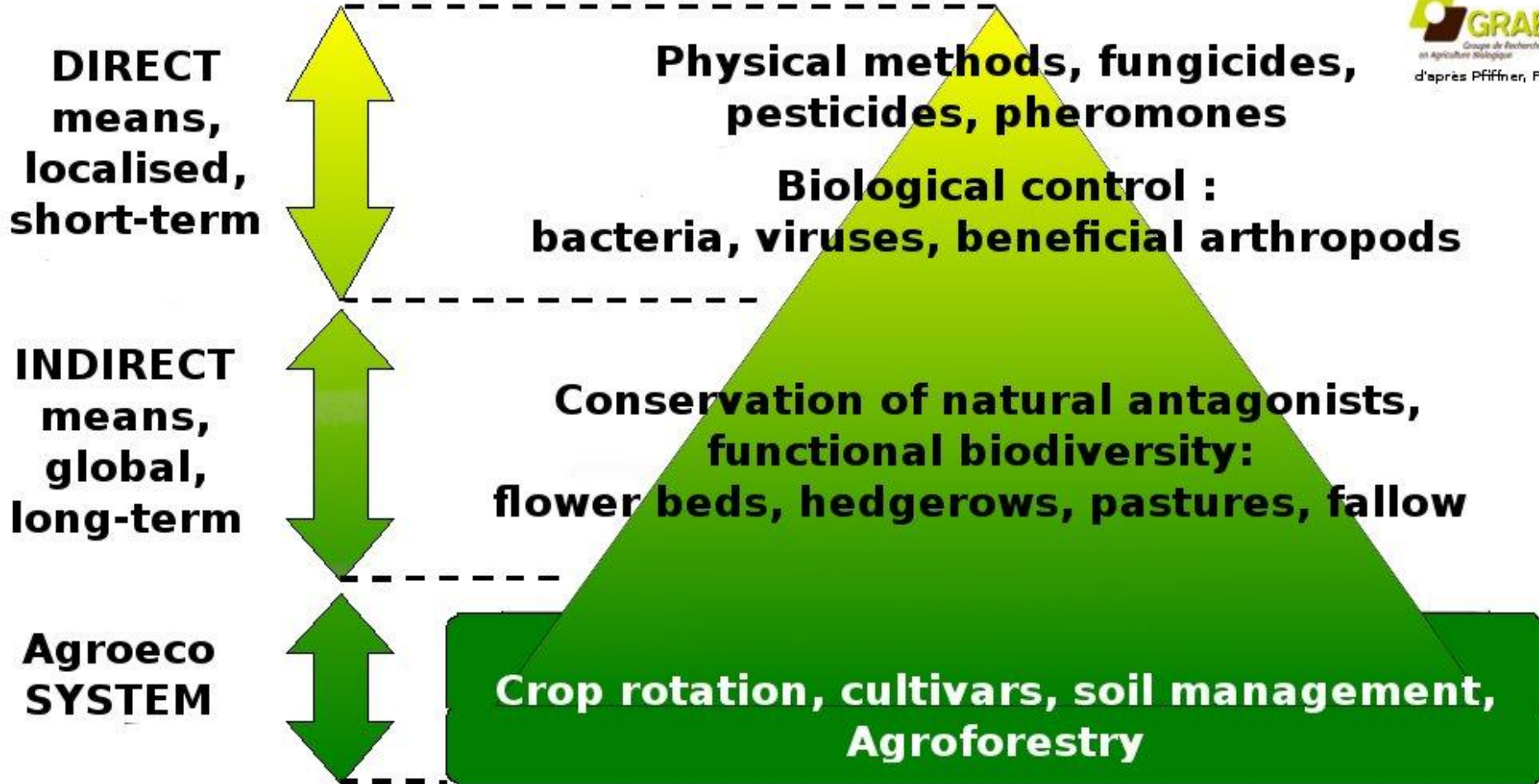
- Alternative to copper / Downy mildew and Apple scab
  - + Cave de Die Jaillance
  - + CoFree (FP7 + FiBL)

- Cultivars susceptibility / Pest & diseases
- Alternative to tillage (within the row)
- Sawfly / Apple

+ INRA Gotheron, Lycées agricole du Valentin



# A multi-level approach



# Functionnal agrobiodiversity in GRAB agenda

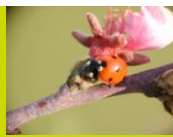
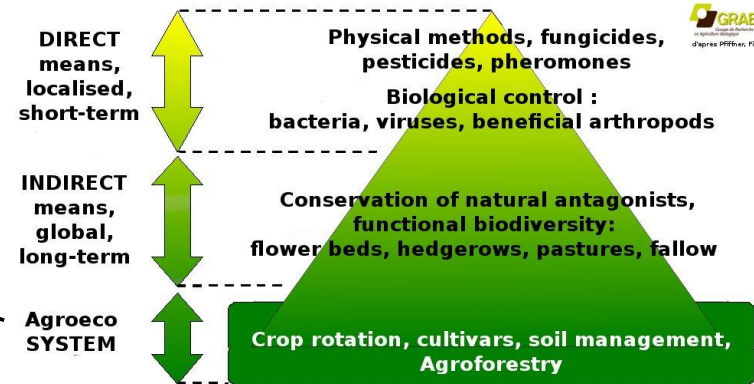
## Flower beds

/ aphid, codling moth, mite, carrot fly

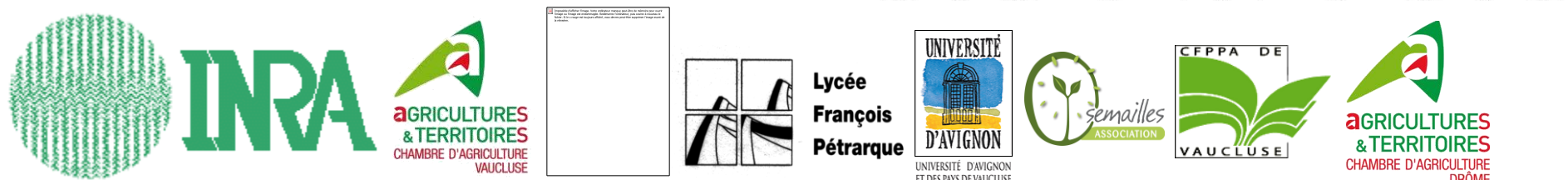
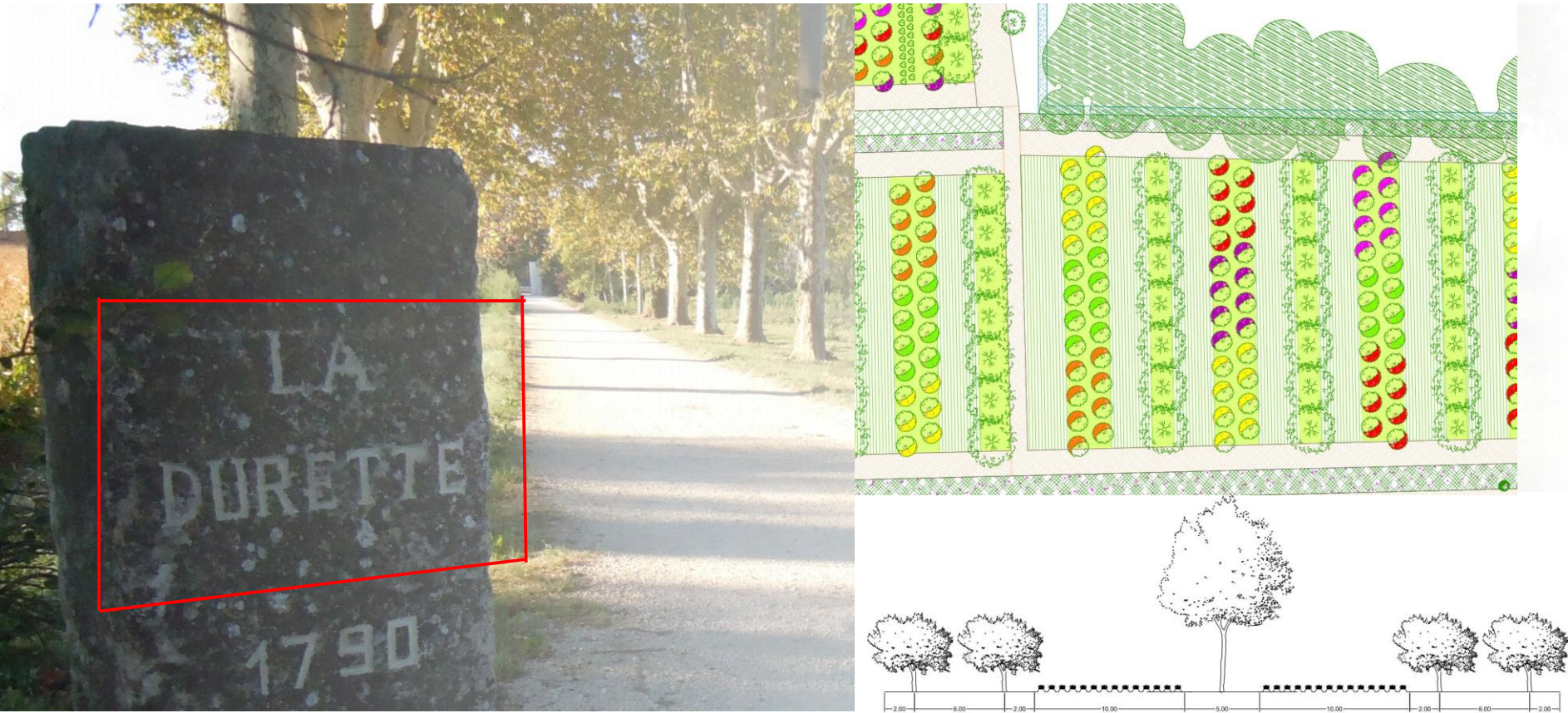
## Hedgerows in vineyard

## Agroforestry & Orchard

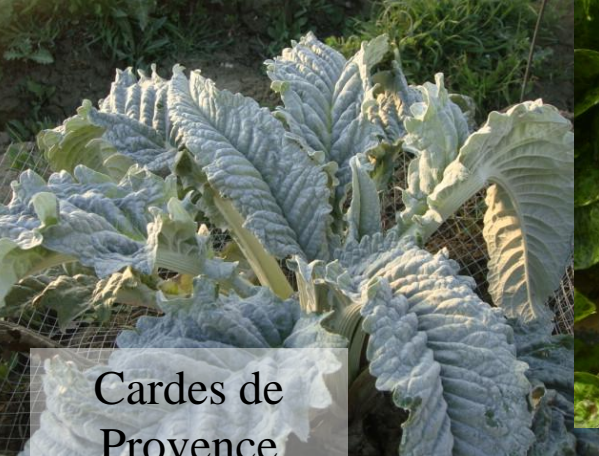
Does biodiversity enhancement help pest and disease control ?



# Biodiversity at work







Cardes de Provence



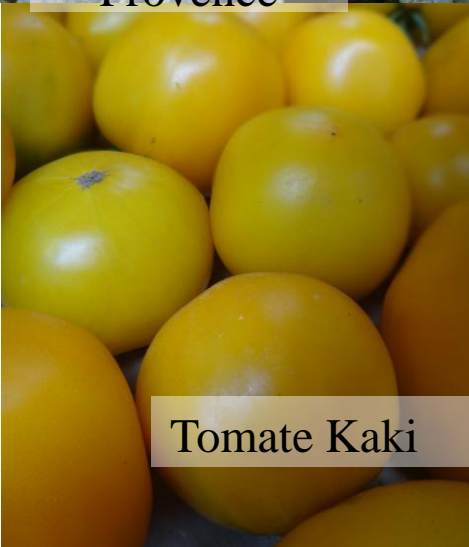
Laitue Sanguine



Graines de Cardes de Provence



Carré de Lagnes



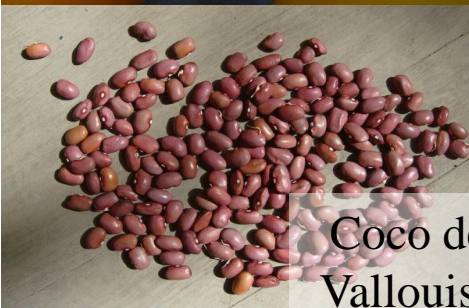
Tomate Kaki



# Participatory breeding



Sucette Hyéroise



Coco de Vallouise



Violette d'Avignon



Melon

