

Workshop 'Innovative arable crop protection – using pesticides sustainably'

Amsterdam, the Netherlands
19-21 April 2023



Funded by
the European Union

IPM Works

Nicolas Munier-Jolain | France

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IPMWORKS

a network of European farmers
demonstrating cost-effective IPM-based
farming systems
with low pesticide inputs

Nicolas MUNIER-JOLAIN / INRAE



#EUCAPNetwork
#SustainableCropProtection
#arablefarming

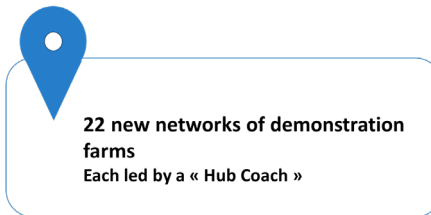
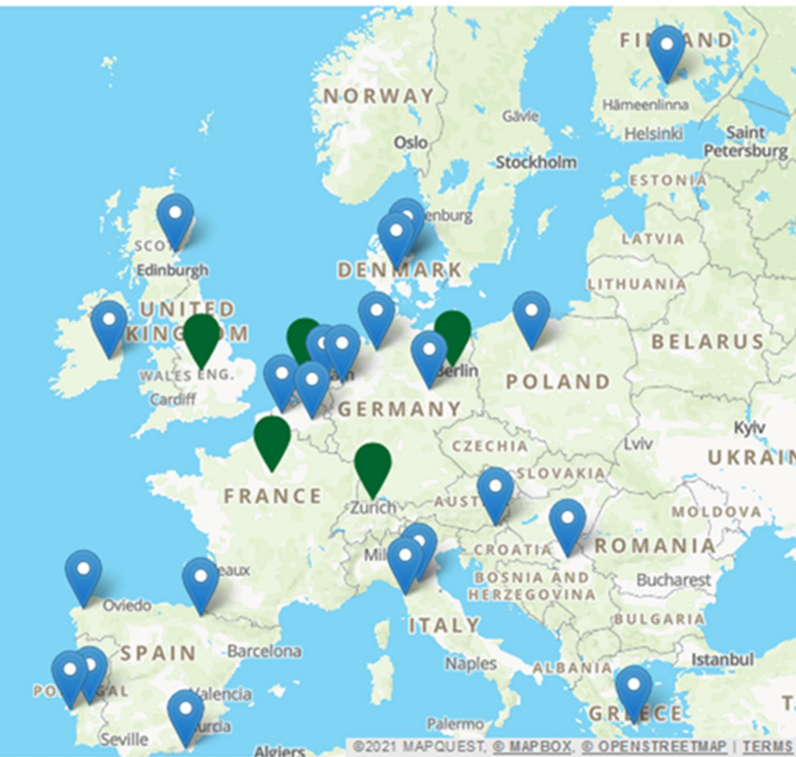


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What is your project/initiative about?



A European network of demonstration farms
*promoting low pesticide use
and economically efficient management strategies*



Principles of IPMWORKS farm groups

- 10 to 15 farmers *in each hub*
- supported by an advisor-facilitator **Hub Coach**
- farmers exchange practical knowledge
- shared objective
*better control pests and diseases with less pesticides,
thanks to systemic IPM*
- DEMOs promote cost-effective IPM strategies

31

Partners

16

Countries

1

IPM Resource
Toolbox

246

Demo
Farmers

22

Hub
coaches

264

Demo events
planned



THIS PROJECT HAS RECEIVED FUNDING FROM
THE EUROPEAN UNION 'HORIZON 2020 RESEARCH
AND INNOVATION PROGRAMME'
UNDER GRANT AGREEMENT N. 101000339

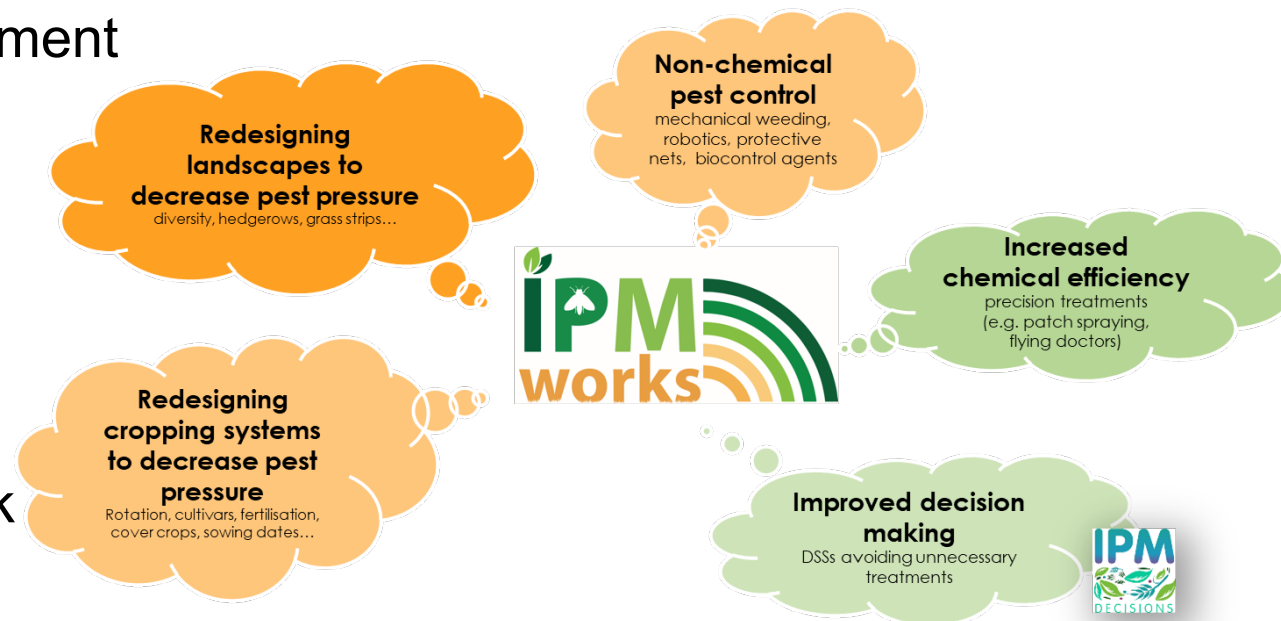
How do you contribute to a reduction of pesticide dependency in your work/project?

- › **We help farmers of the network to re-design their farming system** to adopt a holistic view of crop/pest management to adopt all components of IPM suitable to the farm specific context through peer-to-peer knowledge exchange

- › The specific role of the Hub Coach

- › **We organise farm-level DEMO events** based on IPM success stories in the network to convince a larger number of farmers

- › **We collect data** in IPMWORKS farms to support the demonstration that “IPM works“, i.e. is efficient, reduces pesticides, is cost-effective



Can you indicate which pillar(s) of the ICM is included in your example?

A mixed farm (cereals and dairy cows)

reducing pesticide use thanks to holistic IPM

The farm

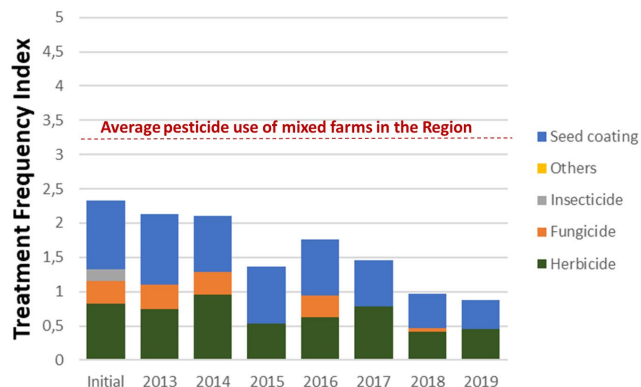
- Member of the DEPHY network
DEPHY is the French component of IPMWORKS
- Region : Normandie (North-Western France)
- Area : 85 ha
- 90 dairy cows
- Specificity : on-farm marketing

ÉCOPHYTO
DEPHY RÉDUIRE ET AMÉLIORER
L'UTILISATION DES PHYTOS

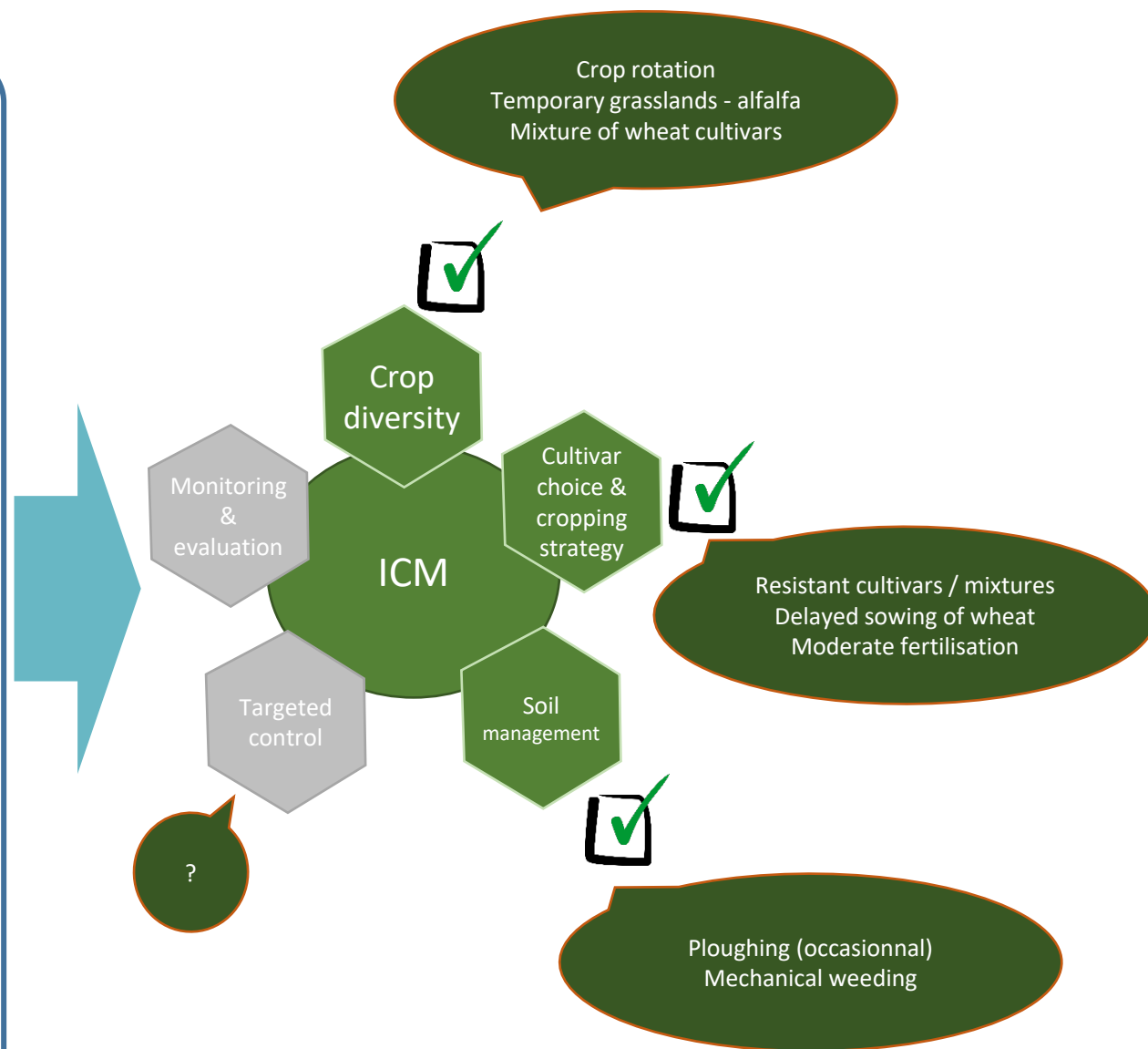


The strategy for pest/disease/weed management

- Crop rotation including temporary grass lands + maize and wheat
- Mechanical weeding (harrow + hoe) in maize
- Mixture of wheat cultivars, resistant to diseases
- Delayed sowing of wheat (escape weeds and diseases)



Low and decreasing
pesticide use

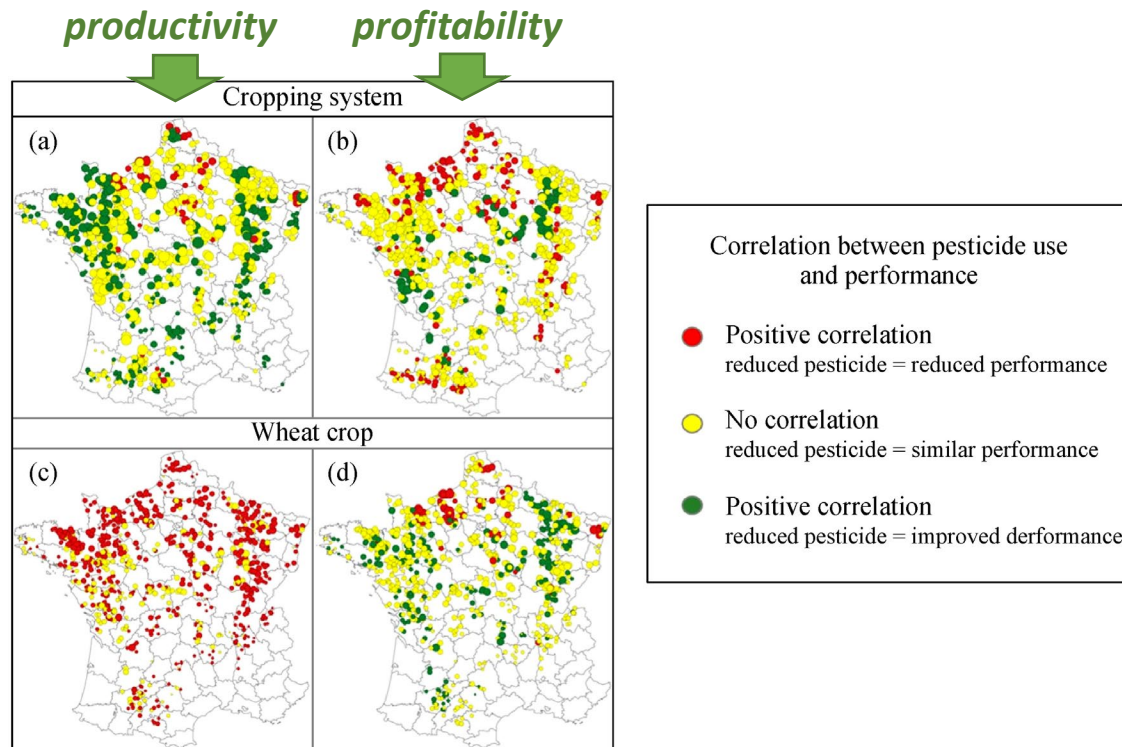


What are your experiences in the transition to sustainable arable cropping systems with reduced pesticide dependency?

Demonstration of cost-efficiency of holistic IPM



Correlation between pesticide use and performances



Lechenet et al., Nature Plants 2017

Scenario of general adoption

What if... all farmers would adopt farming strategies of IPM farmers?

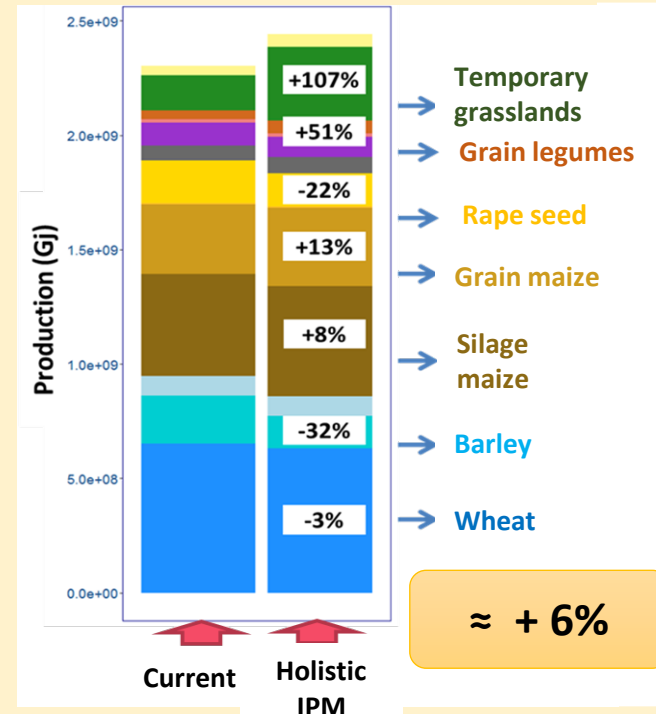
1

Pesticide use

≈ - 40 %

2

Productivity of national agriculture



What challenges do you/did you face?

Sustainability and extension of the IPMWORKS Farm DEMO network

- › to all MSs/Regions
- › After 2024 (end of H2020 funding)

What funding solution?



will provide a service package
for coordinating all IPM farm demo networks in EU



What are the most important steps, from your perspective, towards pesticide independency?

1. Demonstrate to the farming community, that reducing pesticide use through holistic IPM is (i) possible, (ii) cost-effective...
... and that maximising yield targets is not always the best option for sustainability
We need DEMO farms ! (producing demos... and data)
2. Use Farm DEMO networks to support scenarios of general adoption of re-designed IPM-based farming systems
Is IPM adoption endangering EU food security ?
3. Inform consumers about pesticide use of the products they purchase
to produce premium prices to farmers reducing pesticides
toward a mandatory 'pesticide' label?



EU CAP Network workshop

‘Innovative arable crop protection - using pesticides sustainably’

19-21 April 2023

Amsterdam, The Netherlands

All information on the workshop is available on the event webpage:

https://eu-cap-network.ec.europa.eu/events/eu-cap-network-workshop-innovative-arable-crop-protection-using-pesticides-sustainably_en

